

机械制图组合体图

JIXIE ZHITU ZUHETI TUKU

汤柳堤 蒋春芳 编著



机械工业出版社
CHINA MACHINE PRESS

机械制图组合体图库

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本图库经编者多年的潜心整理、自创补充,汇总了工程制图(机械类、非机械类)的组合体图形4246个,共包含五种类型:已知两视图求第三视图;补画二、三视图中漏缺的线条;已知三视图画立体图;已知立体图画三视图;给出一个或两个视图,设计多个物体,画出其三视图等。本书附带光盘,书中的图形以题目的形式出现,光盘中给出答案,读者可以根据需要选取,或者在本书提供的图形基础上进行改变,得到自己需要的图形。

本图库适合大中专院校机械类专业师生使用,也可供工程技术人员及自学者学习参考。

图书在版编目(CIP)数据

机械制图组合体图库/汤柳堤,蒋春芳编著. —北京:机械工业出版社,2012.8
ISBN 978-7-111-38867-8

I. ①机… II. ①汤…②蒋… III. ①机械制图-组合体-图库 IV. ①TH126-64

中国版本图书馆CIP数据核字(2012)第190595号

机械工业出版社(北京市百万庄大街22号 邮政编码100037)
策划编辑:黄丽梅 责任编辑:黄丽梅 版式设计:霍永明
责任校对:卢惠英 封面设计:赵颖喆 责任印制:乔宇
三河市宏达印刷有限公司印刷
2012年9月第1版第1次印刷
297mm×210mm·49.5印张·1200千字
0001—4000册
标准书号:ISBN 978-7-111-38867-8
ISBN 978-7-89433-509-8(光盘)
定价:159.00元(含1CD)

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前言

本图库汇总了工程制图（机械类、非机械类）的组合体图形 4246 个，共包含五种类型：已知两视图求第三视图；补画二、三视图中漏缺的线条；已知三视图画立体图；已知立体图画三视图；给出一个或两个视图，设计多个物体，画出其三视图等。

大量的图形源自大、中专院校各工科类专业制图教学中组合体的精华，源自编者 20 多年的教学实践经验的积累。经编者多年的潜心整理、自创补充，形成了一个内容甚为丰富的图库。既有题目又有答案，答案放在随书光盘中，可作为制图教学工作难得的宝贵资料和非常具有实用价值的工具书。

图库中所有的图形用 AutoCAD2004 绘制。在设定的幅面内，图线设在不同的图层上，赋予不同的颜色，如：A 层—实线（题目的）—白色；B 层—一点画线—红色；C 层—虚线—黄色；D 层—实线（答案的）—绿色；E 层—双点画线—青色。用二维绘图指令及强大的编辑功能，较精确地逐一完成作图，编为页，汇成册。

只要你的电脑中装有 AutoCAD2004 或以上版本的绘图软件（原版或中文版），都能识别和应用本图库。虽然 AutoCAD 绘图软件逐年提升，功能不断完善，但其基本绘图指令和编辑功能始终不变，对本图库没有不利影响，只会更方便作图，如用三维画立体图就更快更好。如果你想把本图库变成高级版绘图软件画成的图库，那么只要在运行该高级版绘图软件的环境下，把本图库的一页页图形重新储存一遍即可。这时的图库就升级了，但低级版的绘图软件就打不开它了。

本图库的特点：

1) 趣味性。尽量把相关的图形放在一起，物体的结构略有变化，其投影

就随着改变，互相对照、联想，简单有趣，也便于掌握投影规律。

2) 便捷性。在进行制图电化教学中，用图库非常方便，从中可选作演示例题、练习题、思考题、考试题、竞赛题等。例如：课堂上作练习，教师预先选好题目，让学生做，学生做完，教师再用随书光盘显示答案，学生对照，自行订正。再如：竞赛题，自图库中选出题目，复杂的图形或细小结构可随意放大，编排成一份试卷（把题中所有的答案部分抹去），然后，设定图线的粗细，打印出图。有了图库这样大量的基础图形，要什么就可选定什么，或选定后略加改变就可得到自己所需要的图形，又快又好。

3) 图形结构设计匀称、大方，电脑显示的色彩和谐、显亮，打印出的图形图线粗细分明、深浅一致、清晰美观。

打印图形时请注意：

在电脑显示屏上，黄色比品红色显亮、好看，绿色柔和美观、为绿色通道答案色。可是在彩色打印和黑白打印的图样中，黄色在白纸上不清晰，绿色也较浅。如把黄色改为品红色、绿色改为白色，打印为黑白图样，那么图线清晰、深浅一致。因此，为了兼顾显示和图样的最佳效果，打印时，先在图层中改色，打印完后，再恢复为原来的颜色，这样做比较好。看起来麻烦一点，实际上电脑操作很简便。

本图库主要由汤柳堤编著，部分由蒋春芳编著，全图库由蒋春芳审核，戴小妹提供了部分资料。在图库完成之际，特别向编著制图教材和习题等各种资料的老师，以及支持和帮助我们的同志表示衷心的感谢。

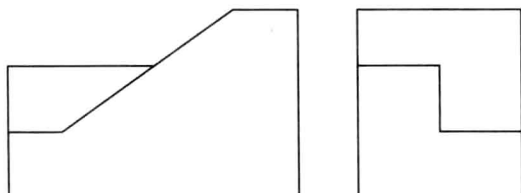
本图库尚不完善，仍有不少图形没有编进去，部分图形的编排可能也不尽如人意，错误不足之处，敬请指正。

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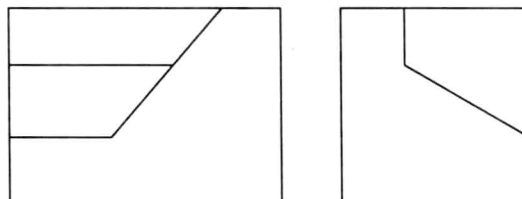
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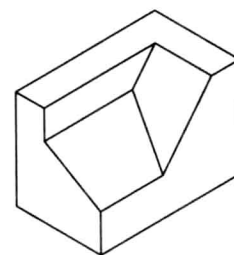
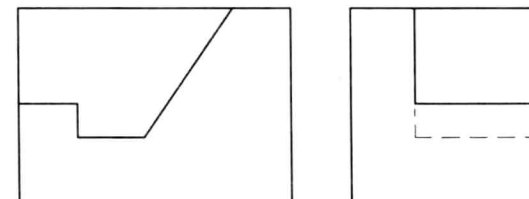
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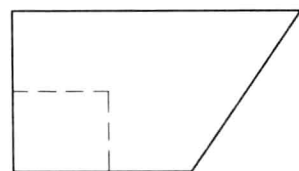
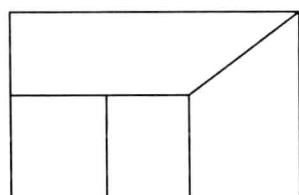
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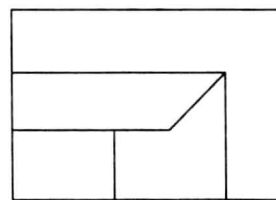
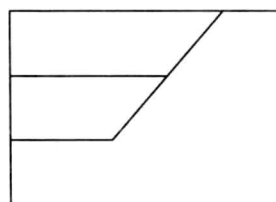
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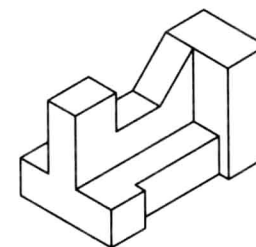
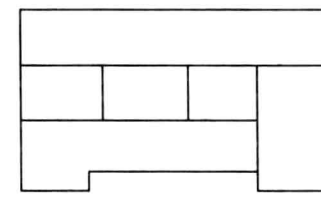
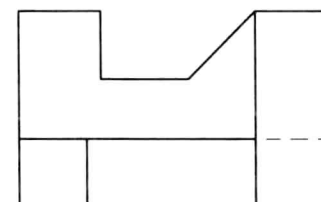
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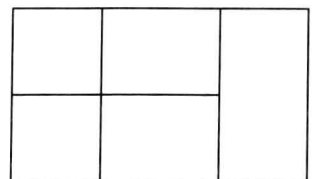
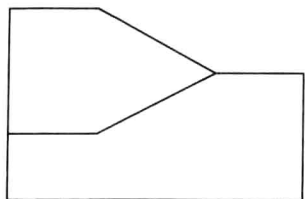
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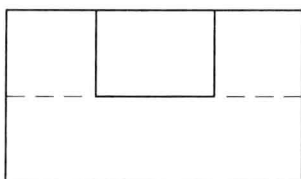
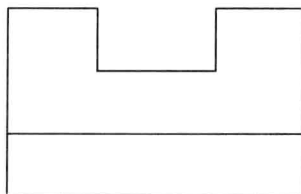
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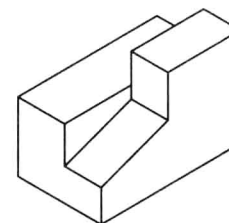
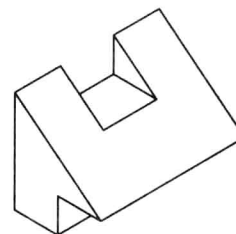
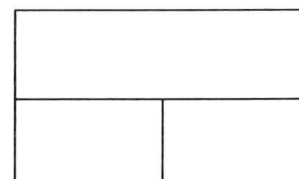
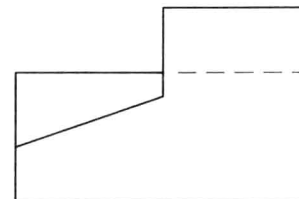
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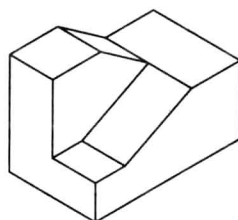
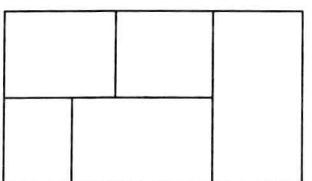
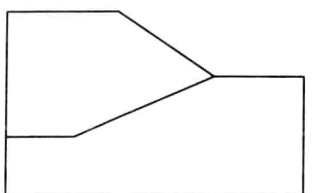
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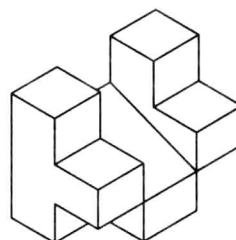
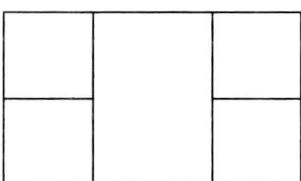
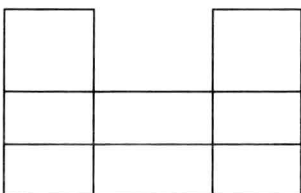
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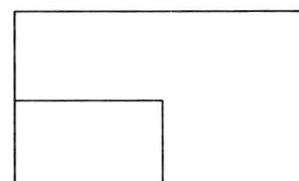
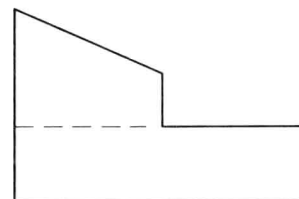
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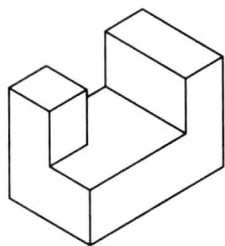
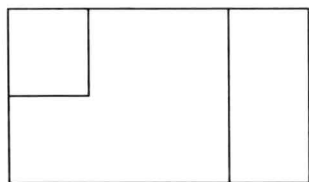
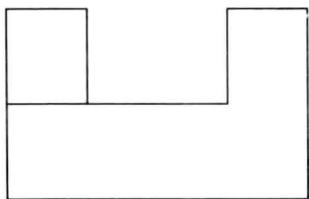
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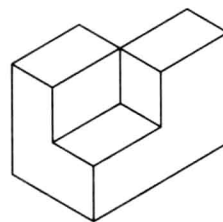
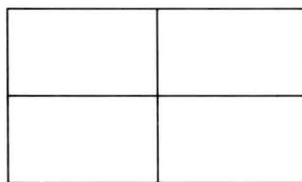
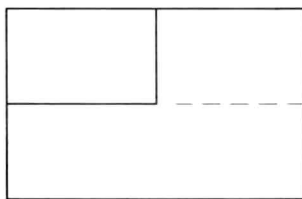
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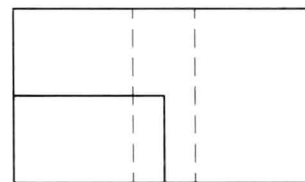
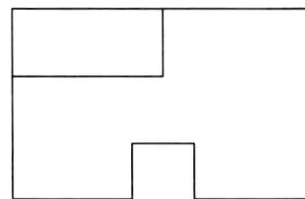
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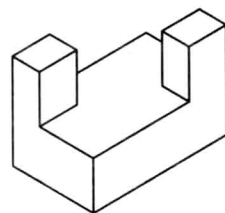
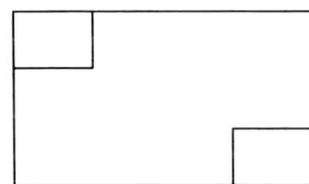
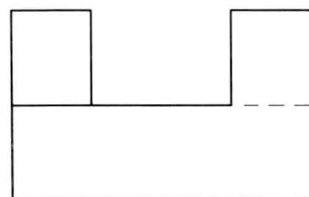
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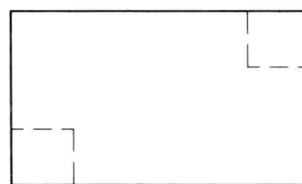
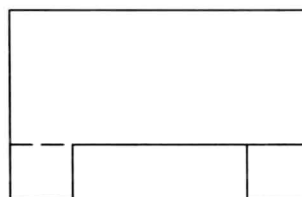
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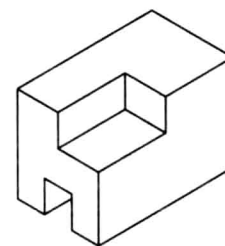
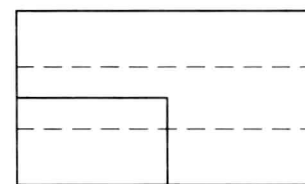
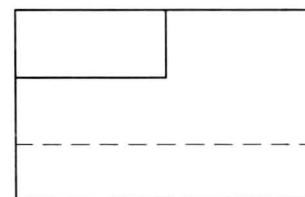
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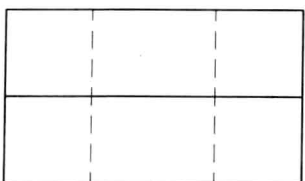
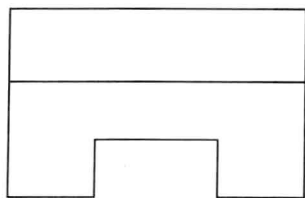
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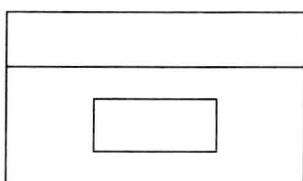
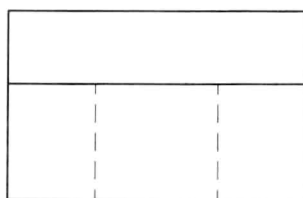
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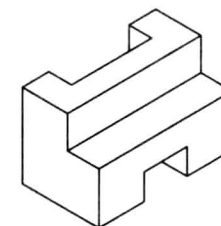
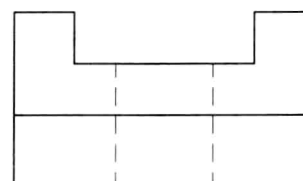
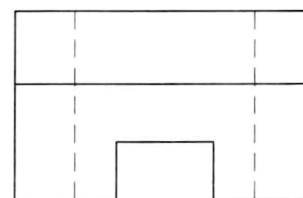
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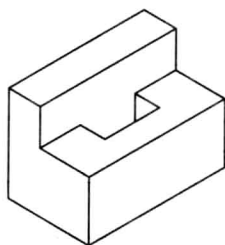
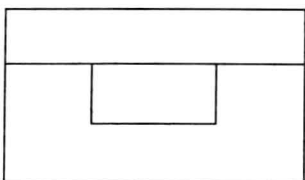
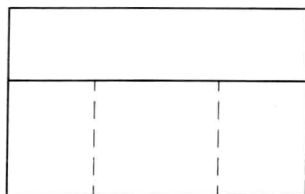
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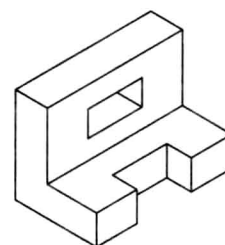
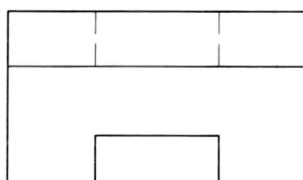
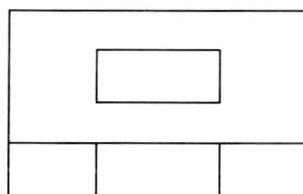
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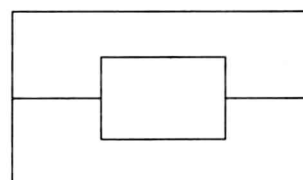
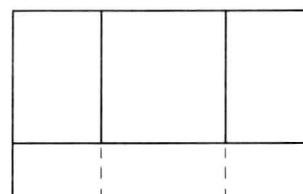
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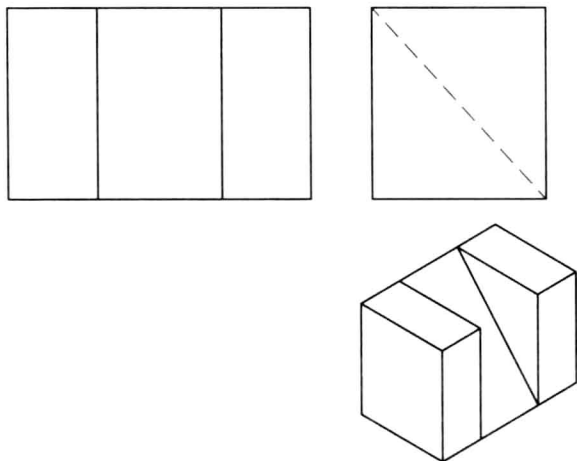
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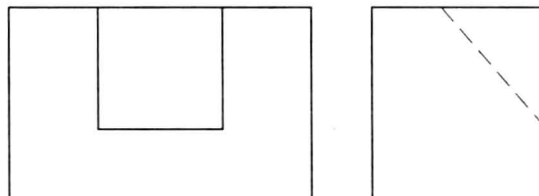
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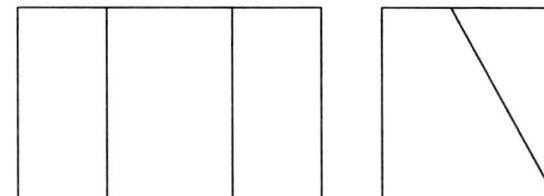
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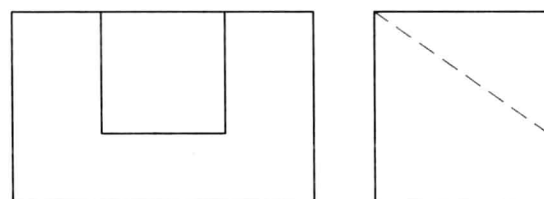
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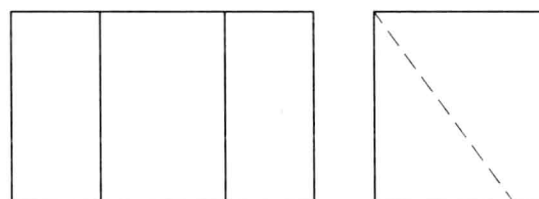
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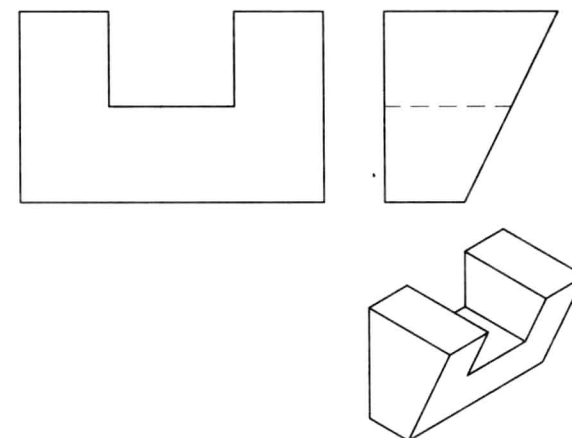
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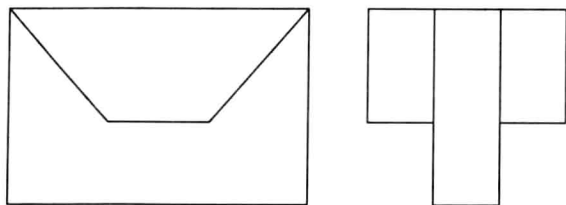
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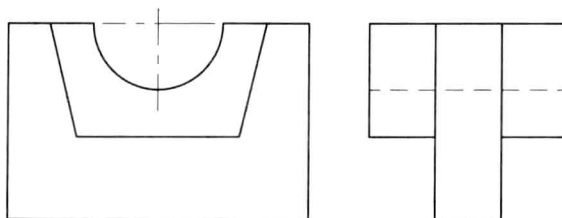
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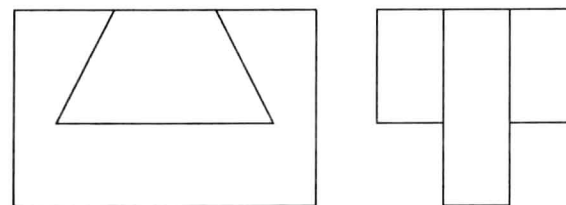
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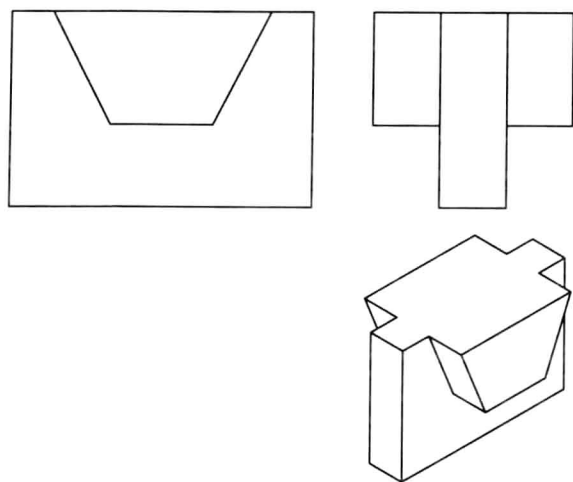
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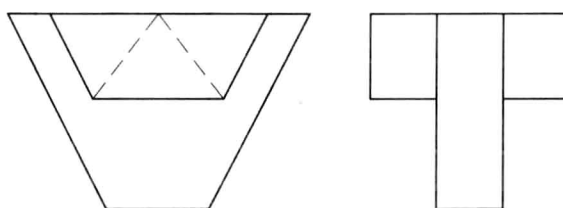
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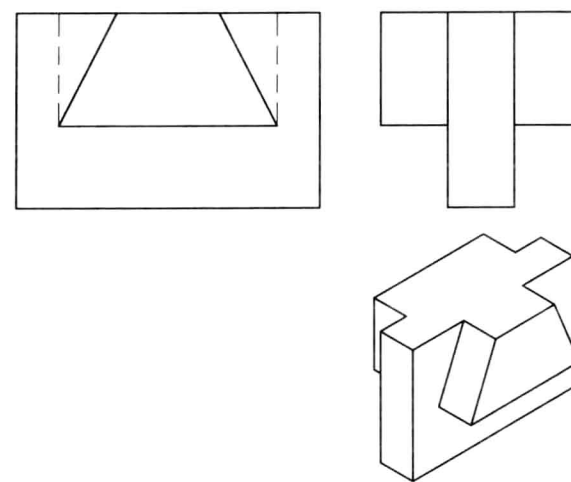
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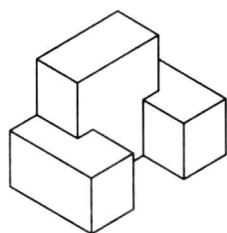
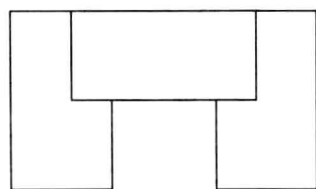
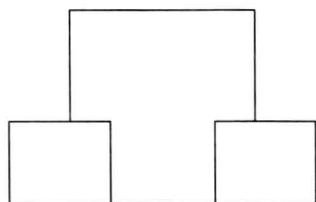
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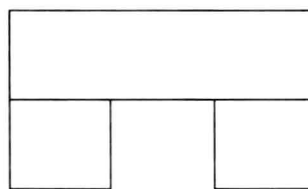
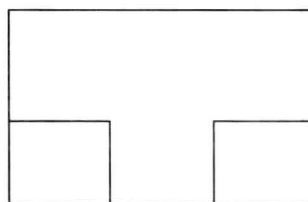
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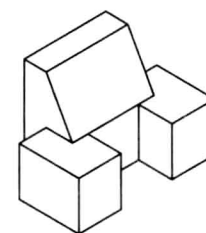
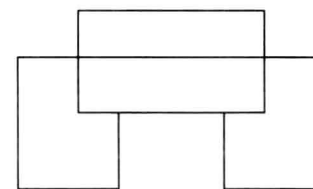
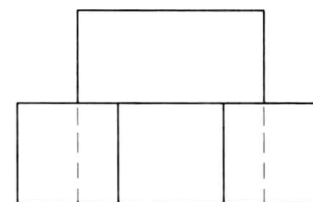
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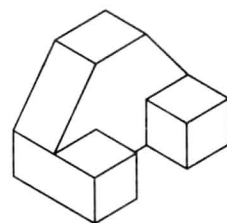
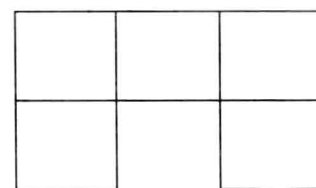
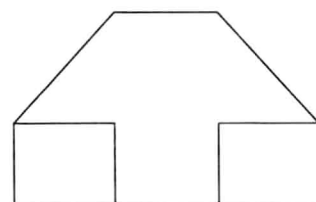
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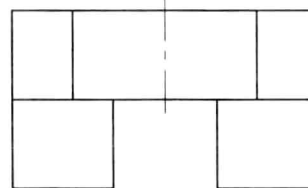
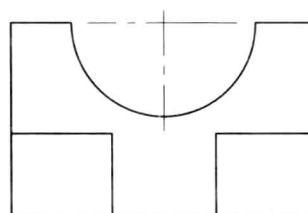
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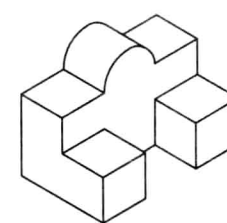
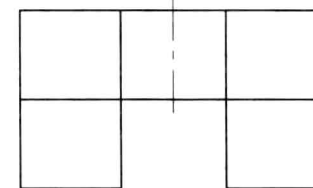
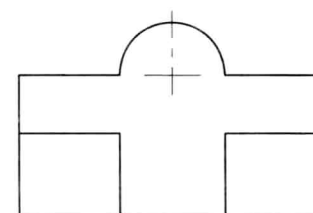
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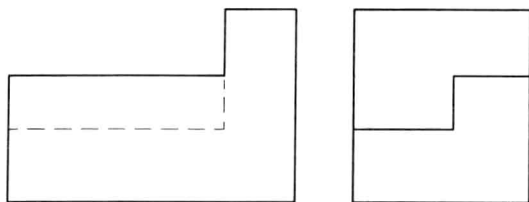
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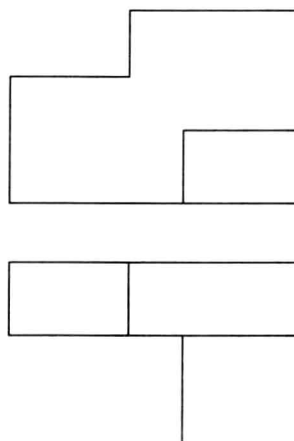
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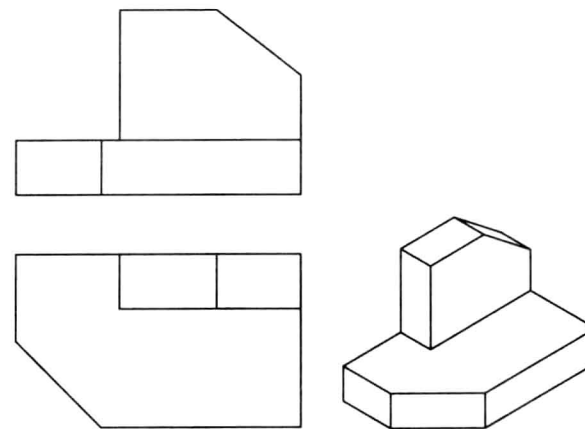
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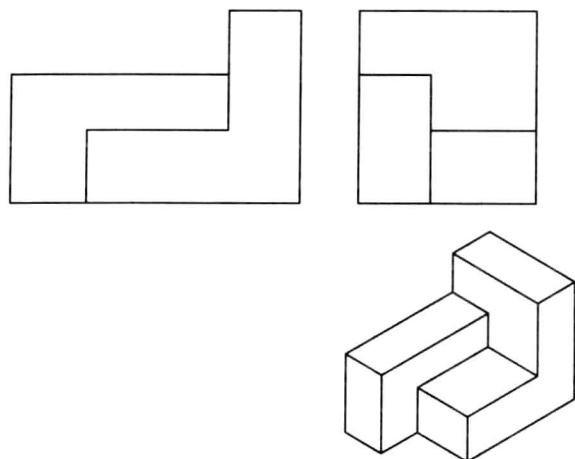
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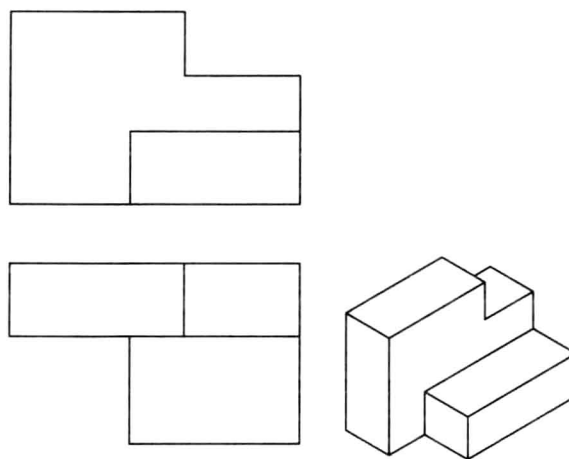
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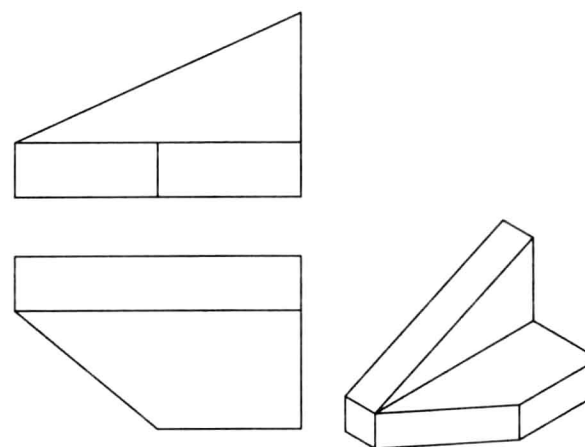
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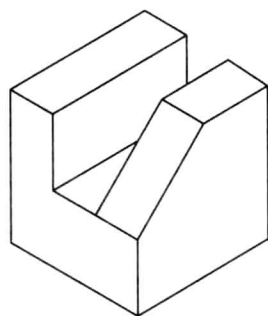
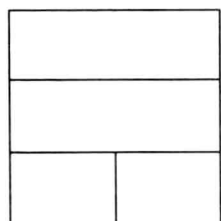
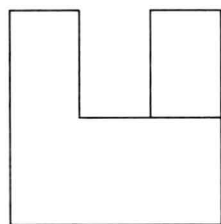
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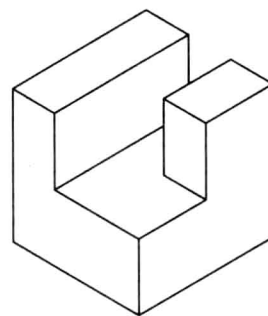
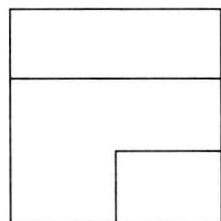
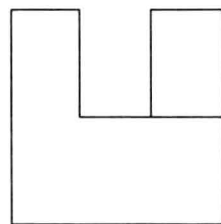
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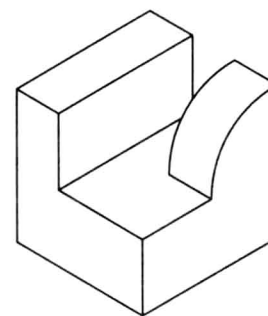
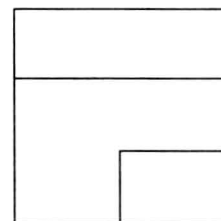
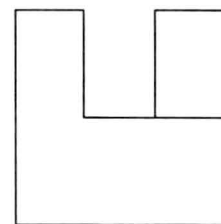
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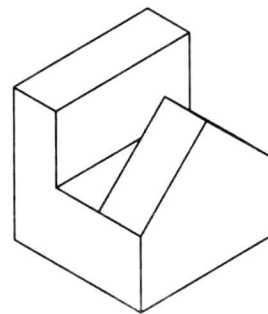
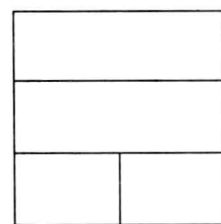
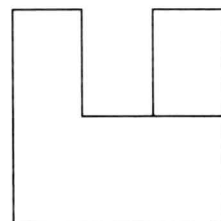
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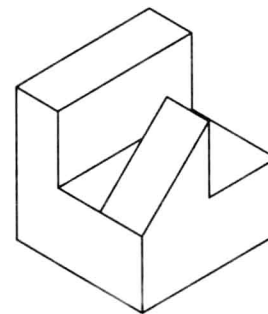
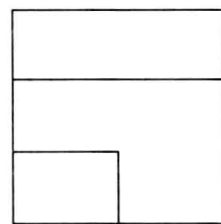
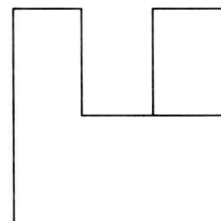
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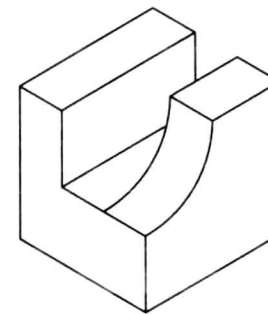
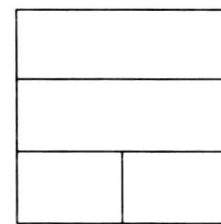
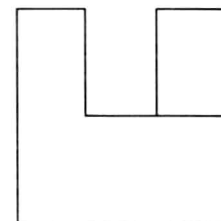
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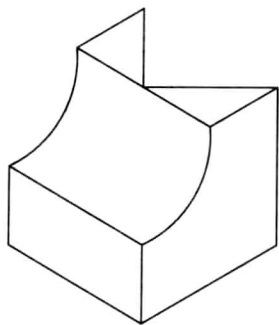
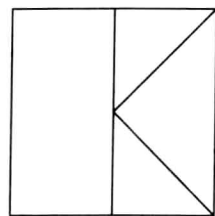
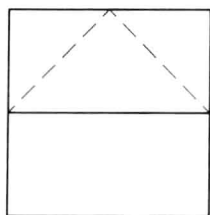
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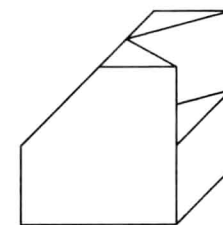
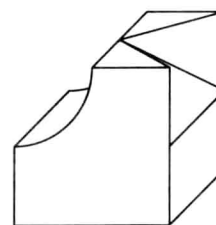
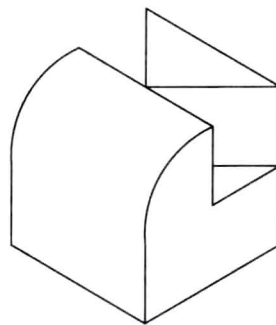
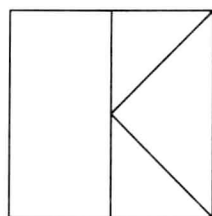
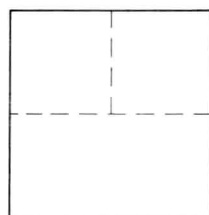
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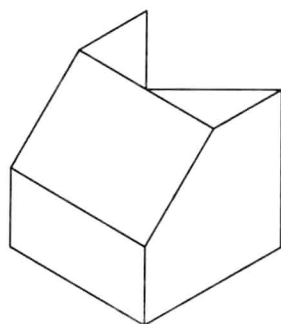
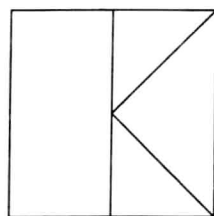
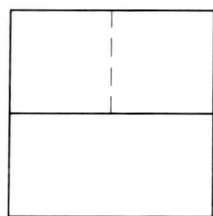
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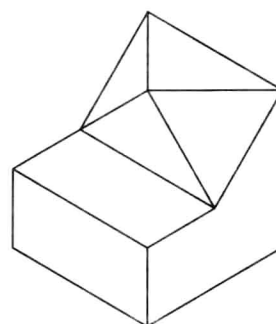
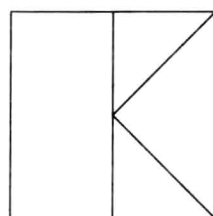
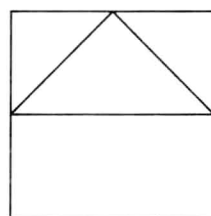
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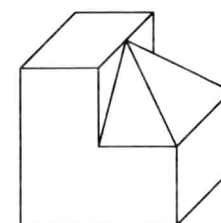
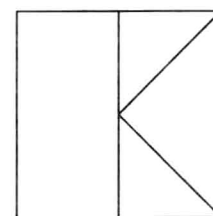
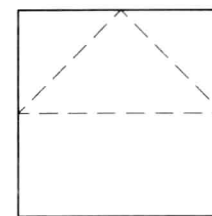
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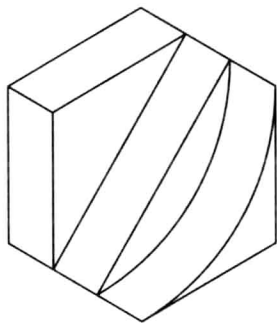
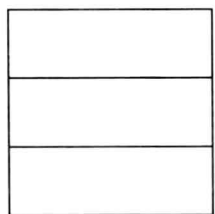
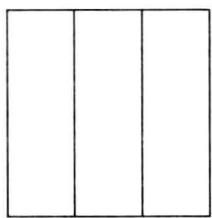
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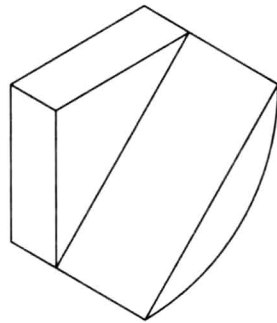
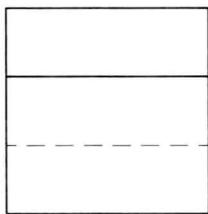
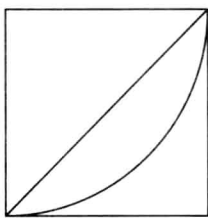
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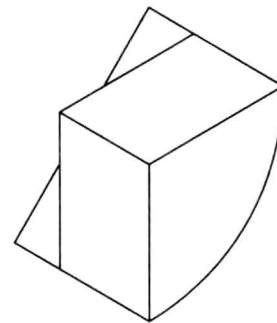
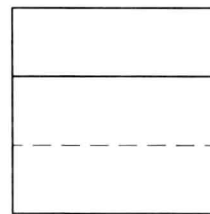
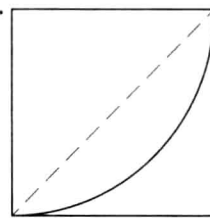
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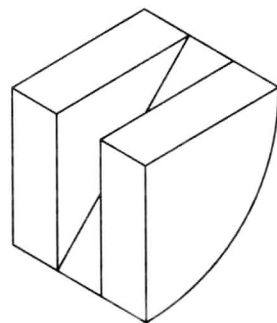
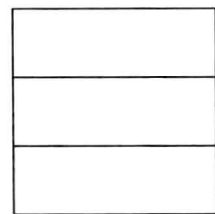
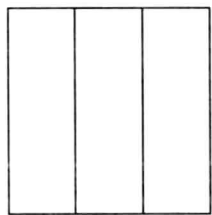
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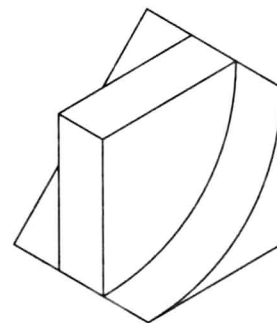
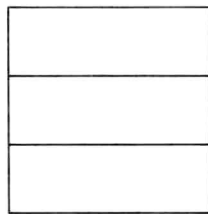
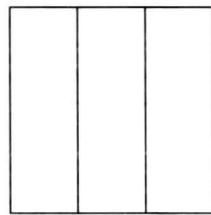
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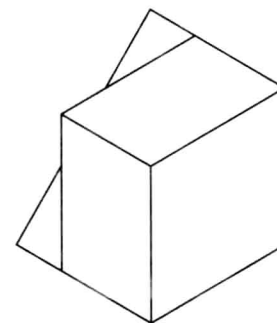
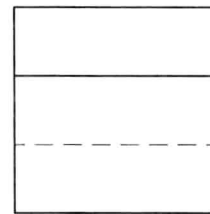
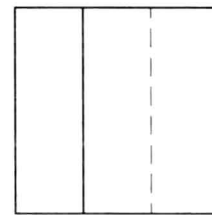
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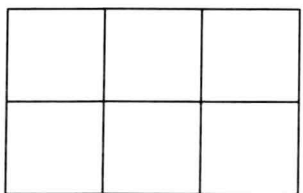
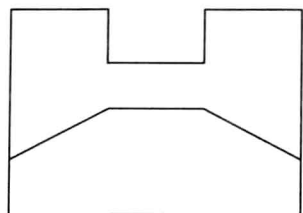
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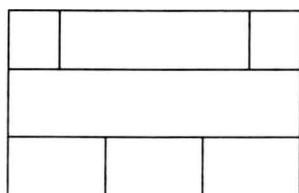
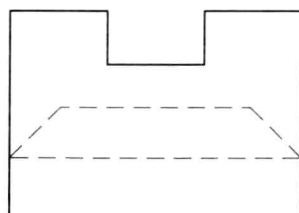
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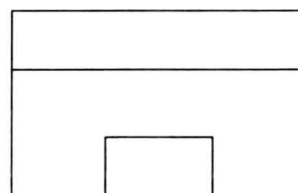
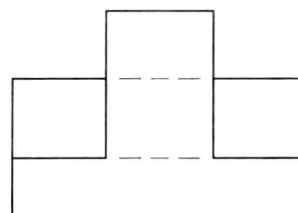
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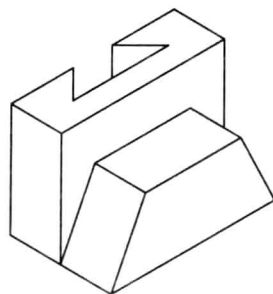
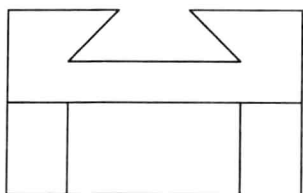
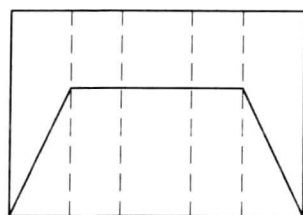
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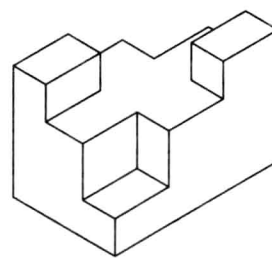
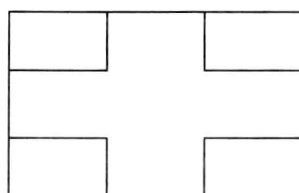
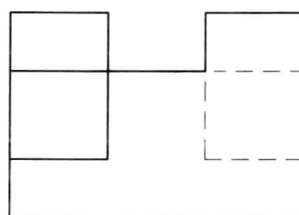
68.



69.



70.



71.

