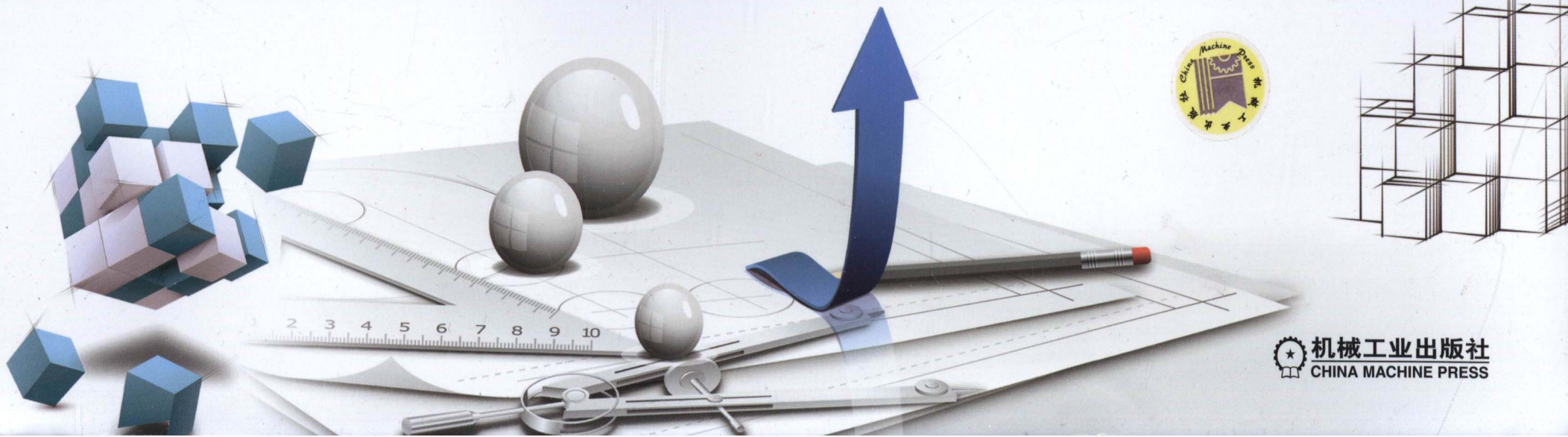


机械制图组合体 图库

JIXIE ZHITU ZUHETI TUKU

汤柳堤 蒋春芳 编著



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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。

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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者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。

作 者

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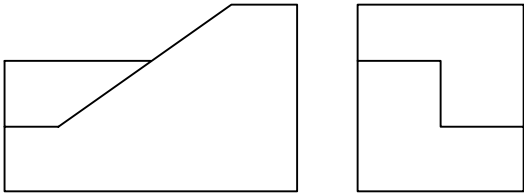
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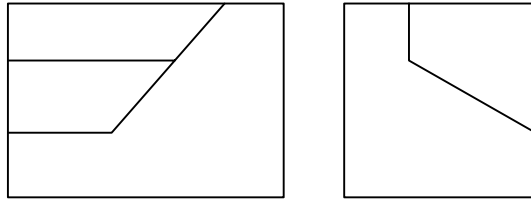
一、已知两视图求第三视图

长方体的截制、叠加

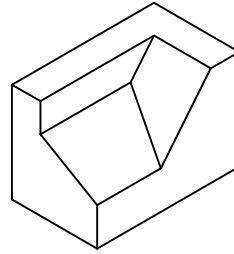
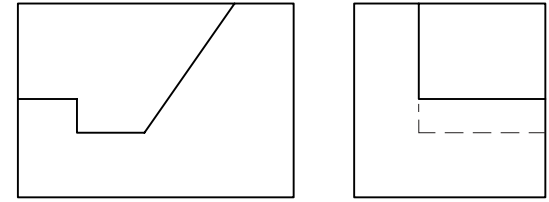
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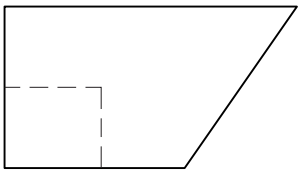
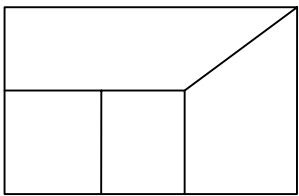
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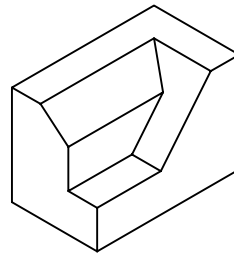
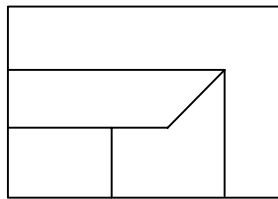
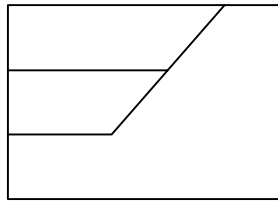
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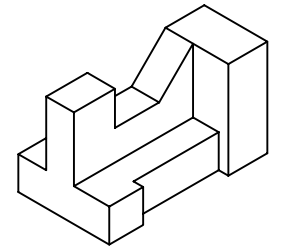
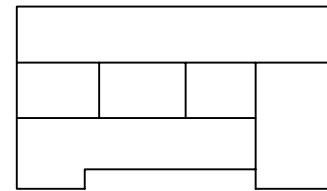
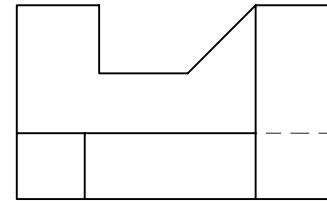
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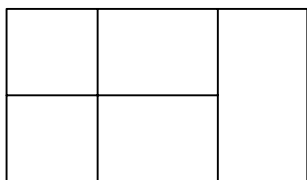
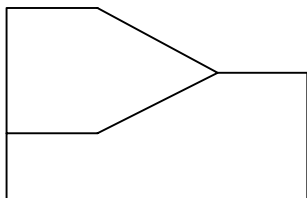
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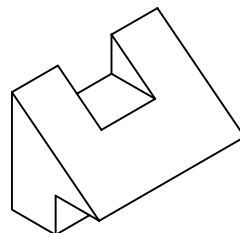
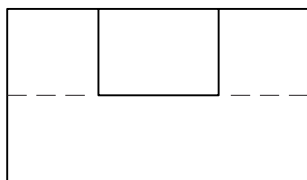
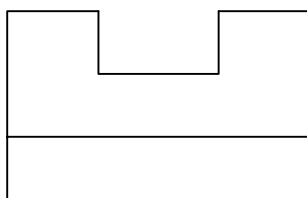
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长方体的截割、叠加

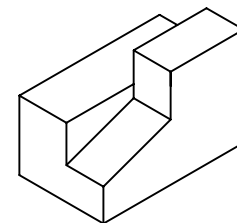
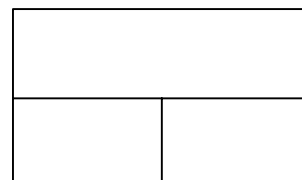
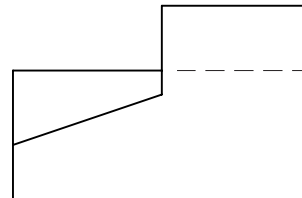
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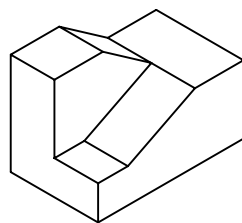
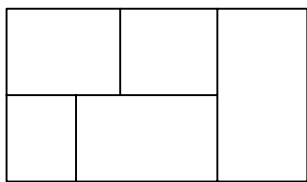
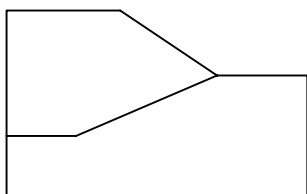
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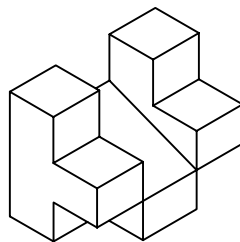
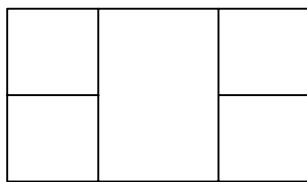
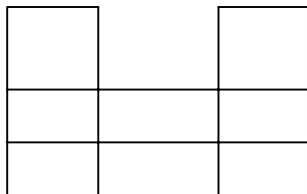
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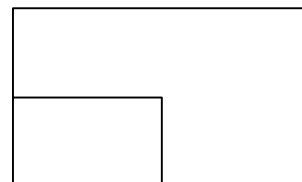
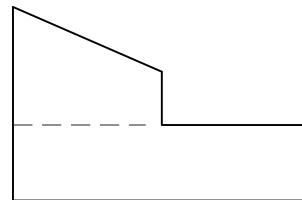
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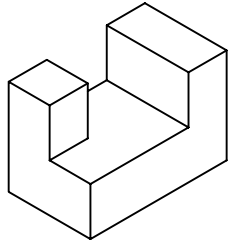
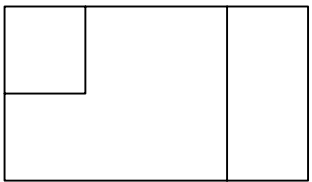
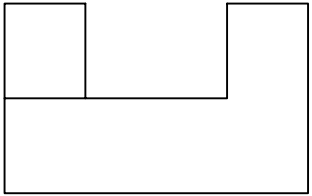
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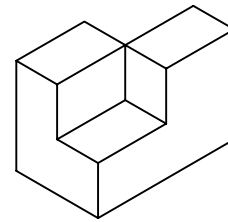
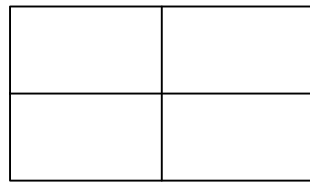
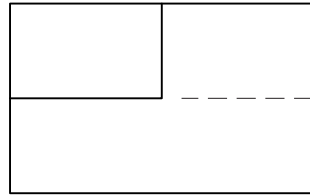
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长方体的截制、叠加

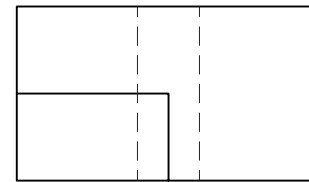
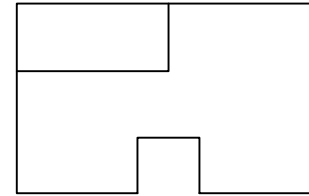
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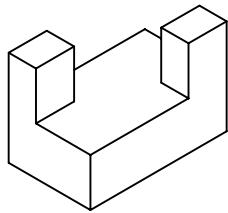
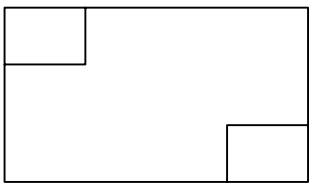
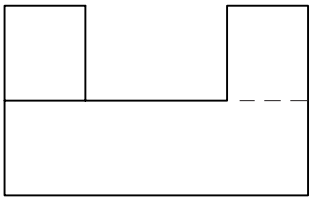
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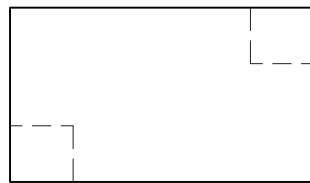
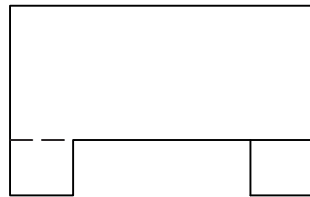
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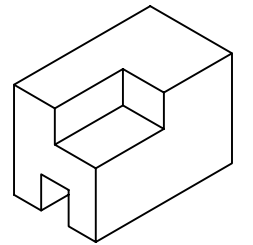
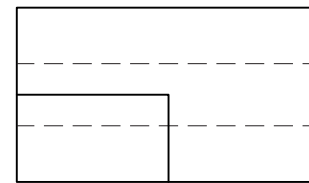
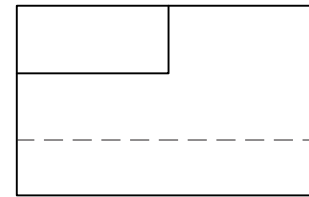
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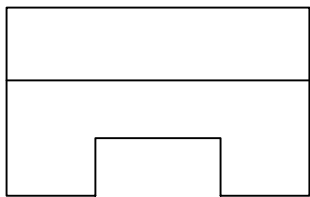
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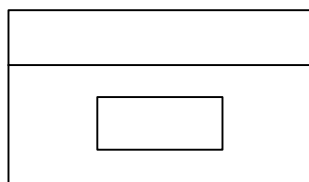
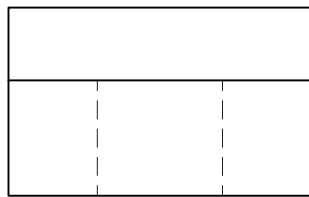
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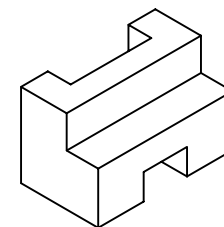
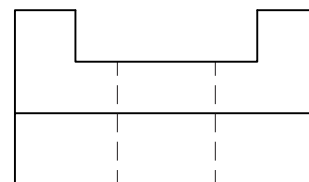
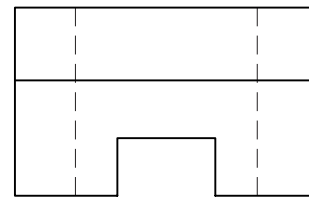
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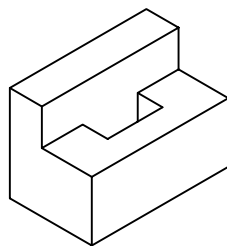
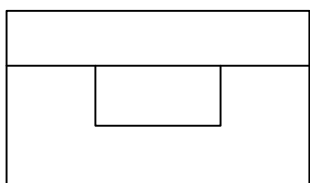
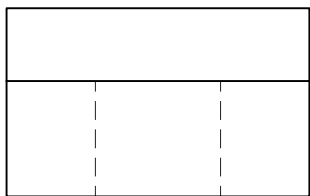
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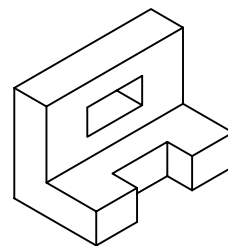
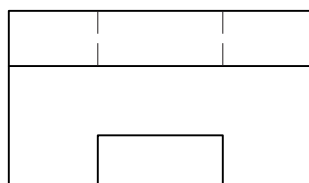
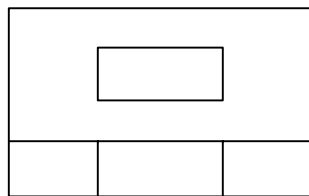
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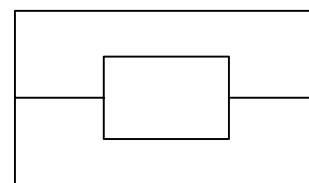
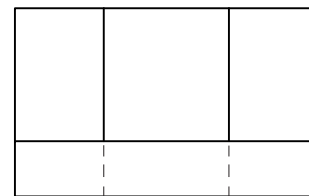
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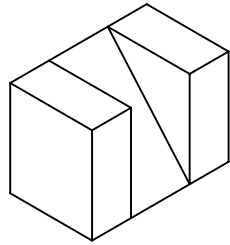
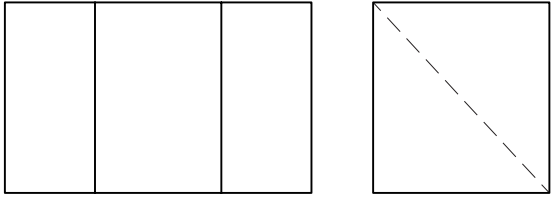
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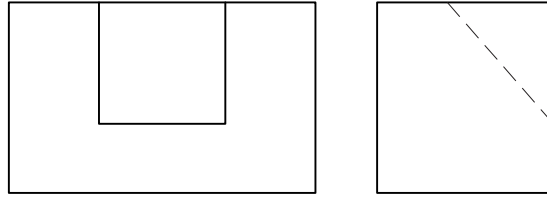
一、已知两视图求第三视图

长方体的截割、叠加

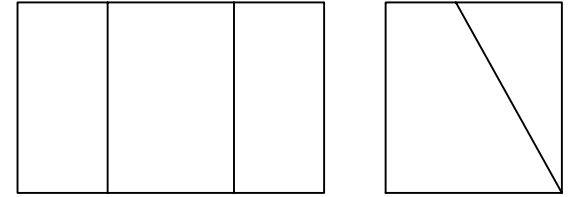
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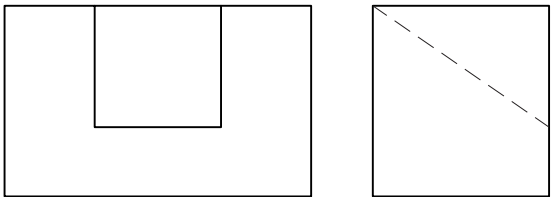
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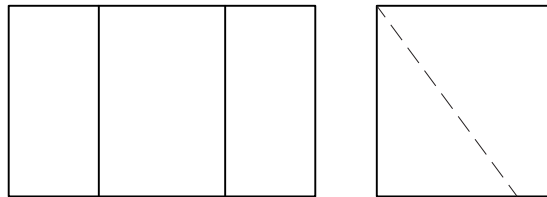
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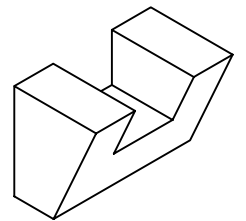
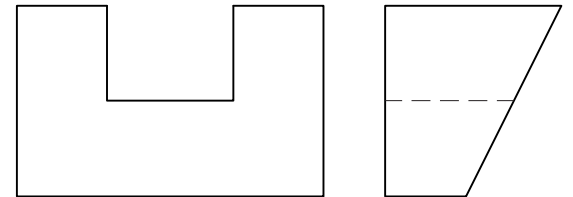
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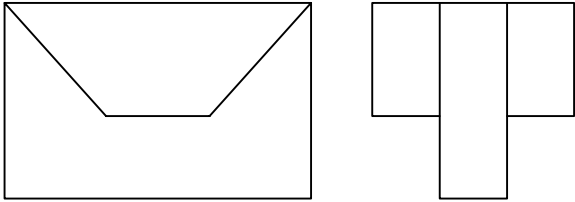
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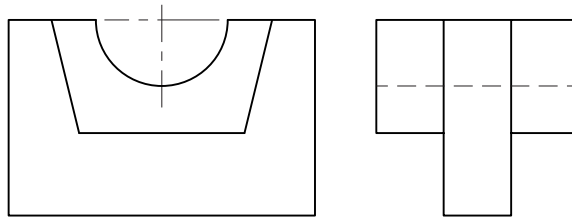
一、已知两视图求第三视图

长方体的截割、叠加

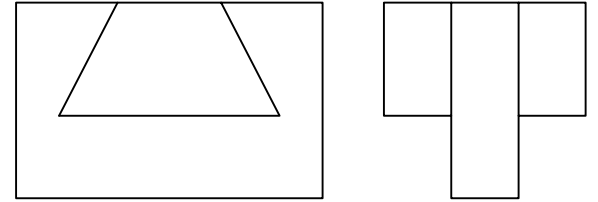
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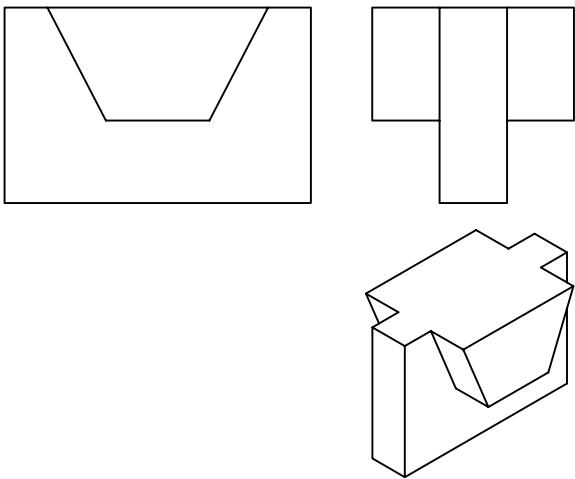
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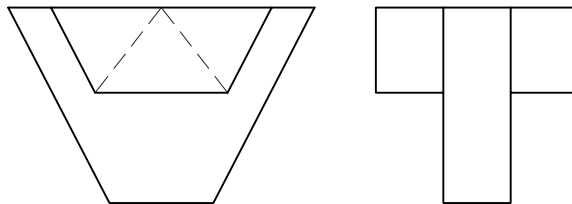
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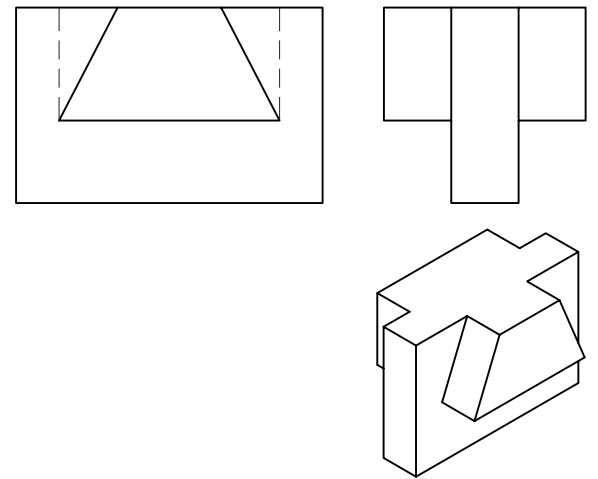
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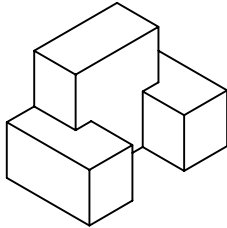
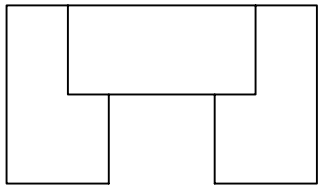
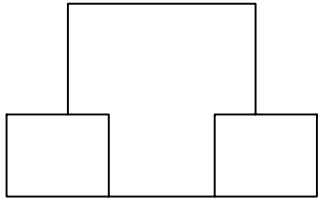
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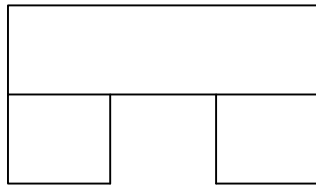
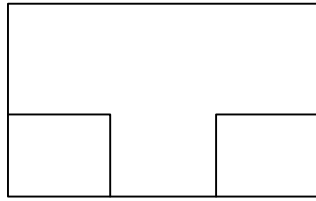
一、已知两视图求第三视图

长方体的截制、叠加

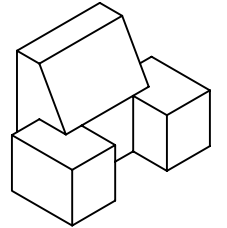
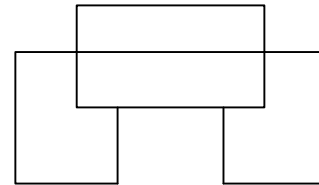
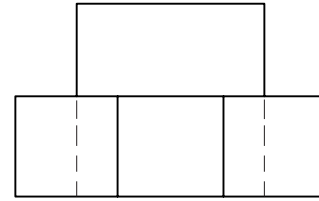
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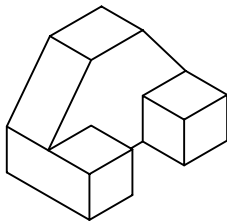
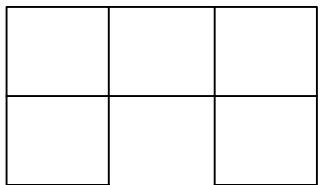
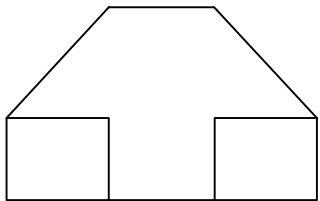
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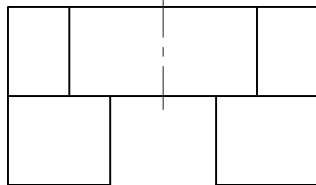
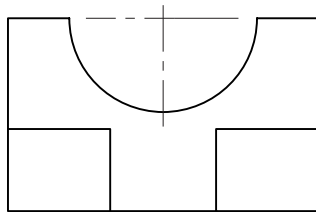
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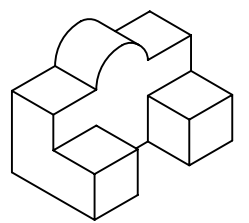
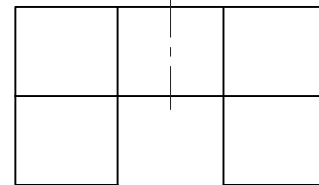
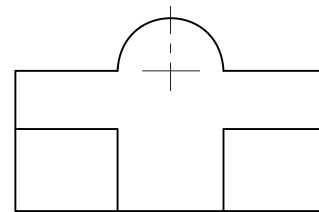
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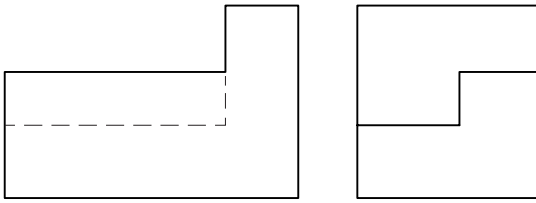
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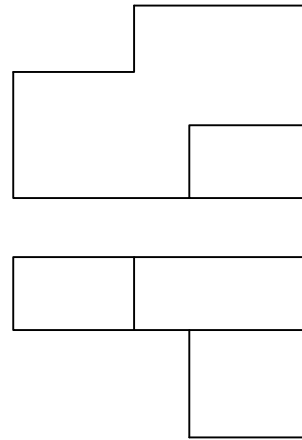
一、已知两视图求第三视图

长方体的截制、叠加

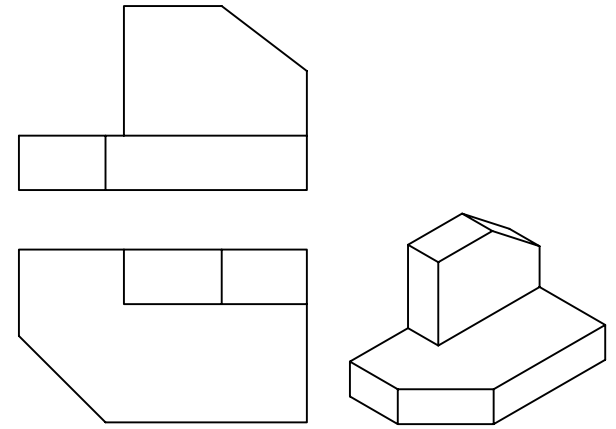
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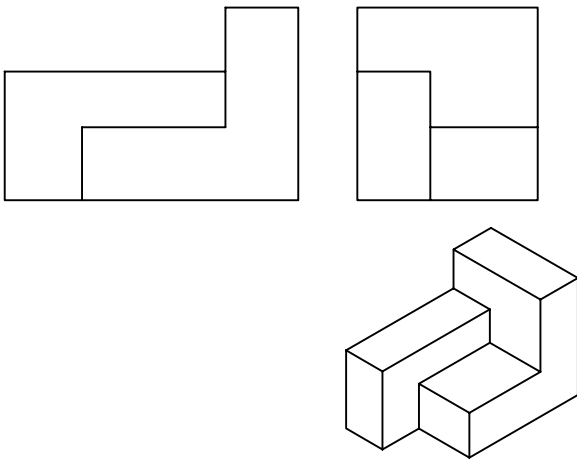
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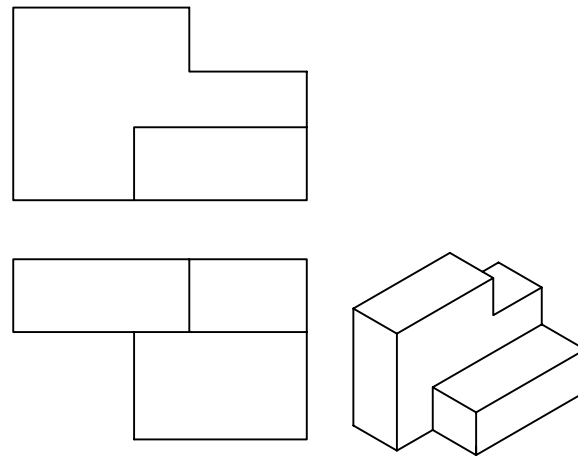
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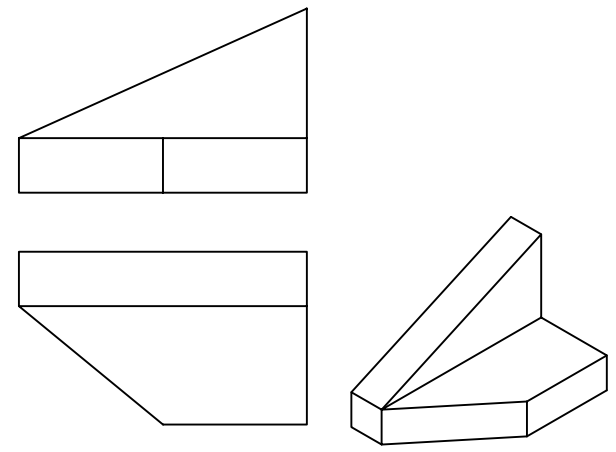
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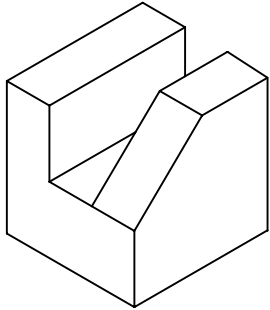
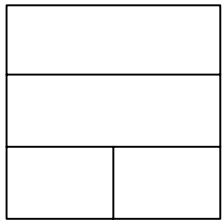
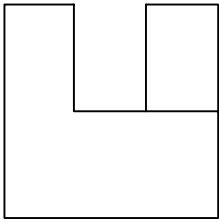
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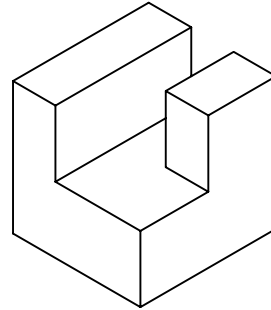
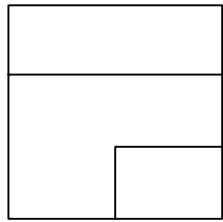
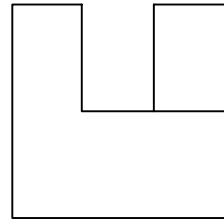
一、已知两视图求第三视图

长方体的截割、叠加

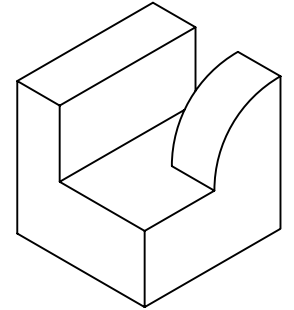
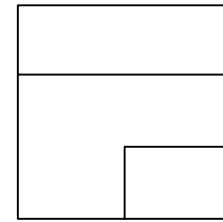
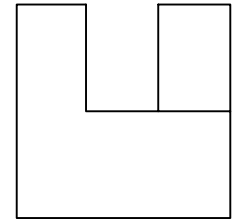
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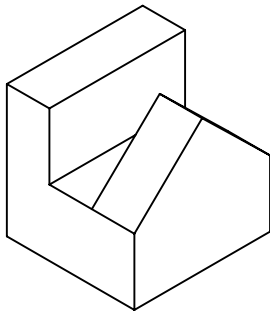
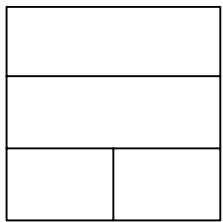
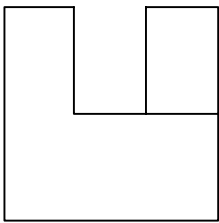
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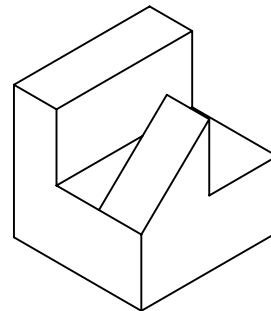
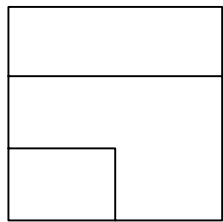
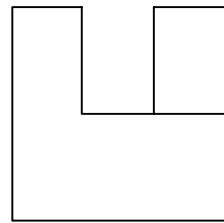
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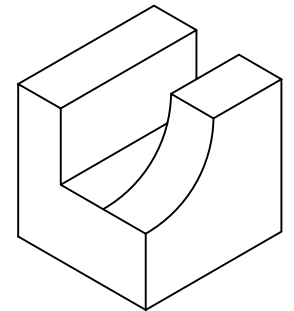
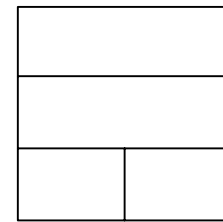
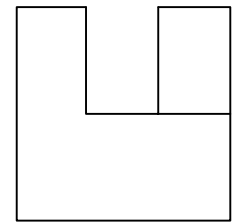
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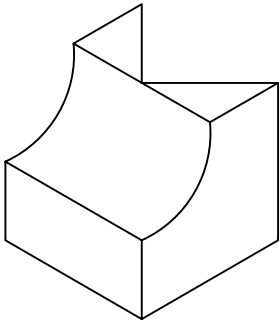
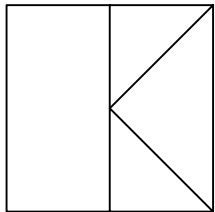
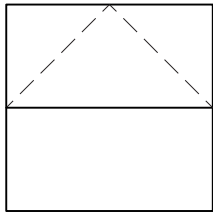
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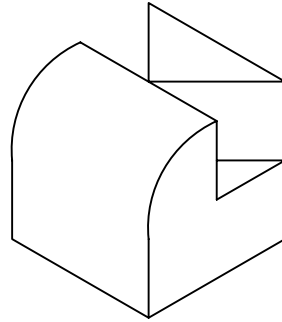
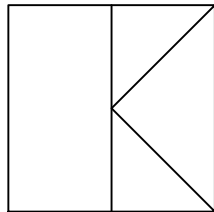
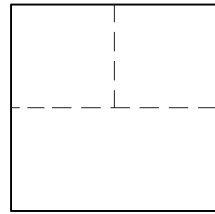
一、已知两视图求第三视图

长方体的截割、叠加

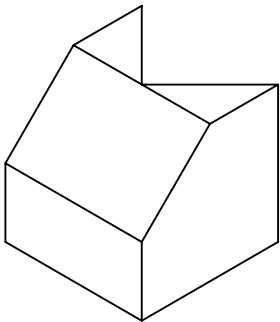
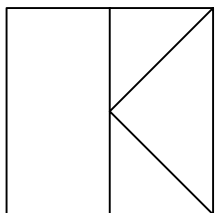
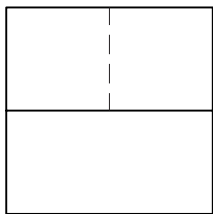
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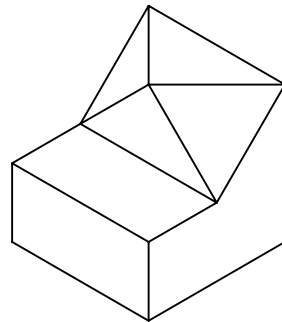
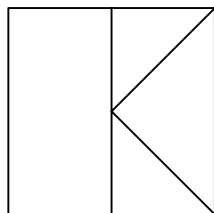
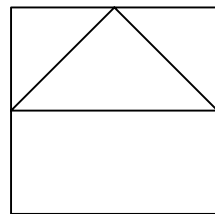
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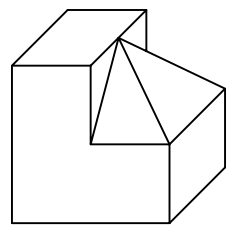
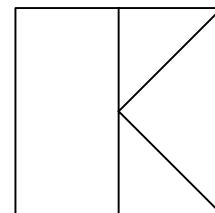
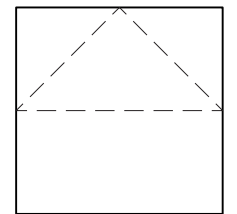
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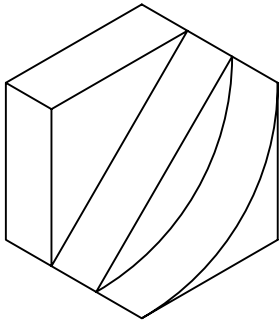
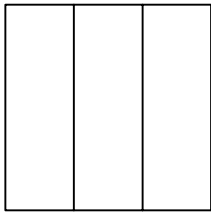
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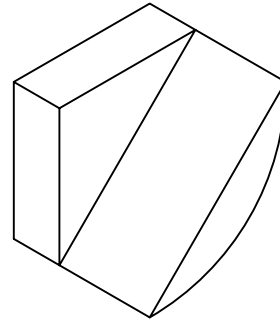
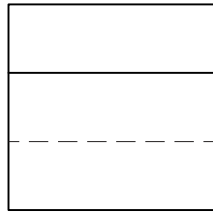
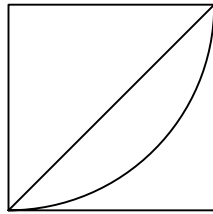
一、已知两视图求第三视图

长方体的截制、叠加

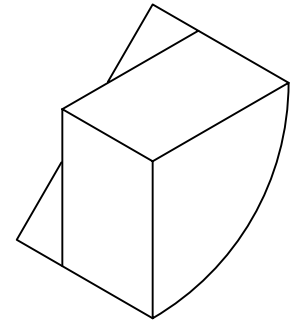
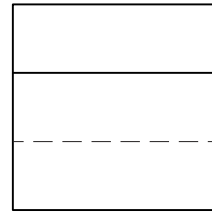
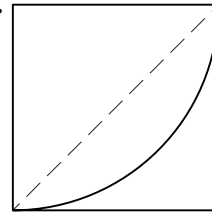
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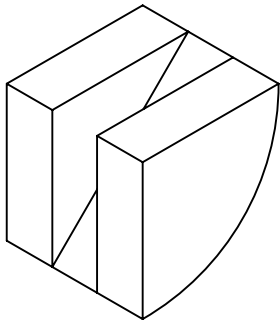
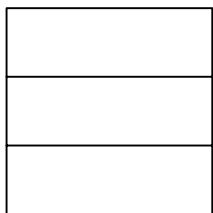
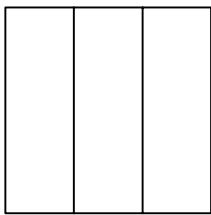
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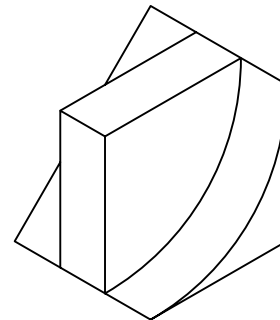
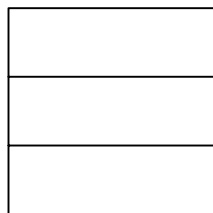
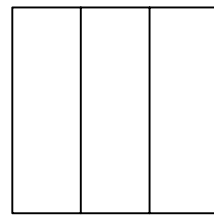
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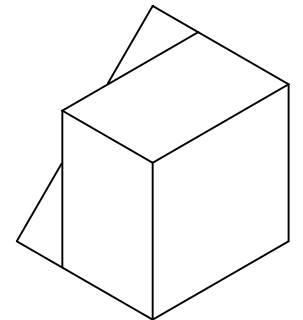
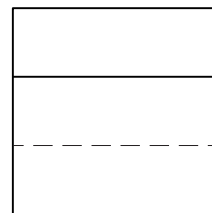
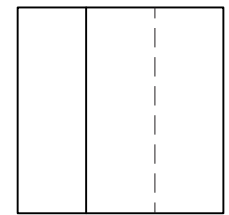
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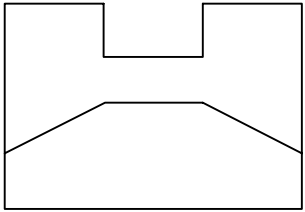
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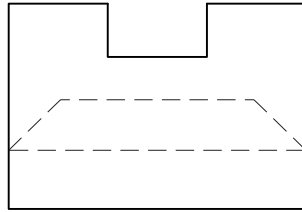
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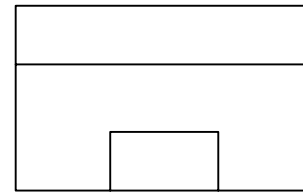
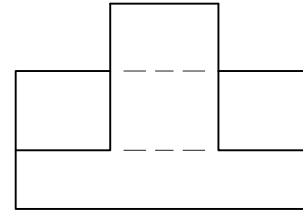
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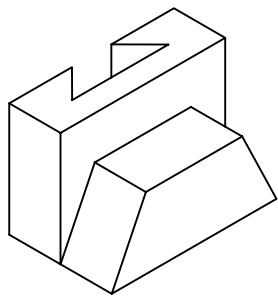
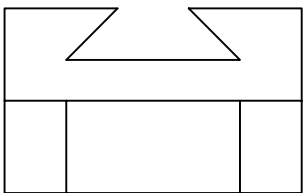
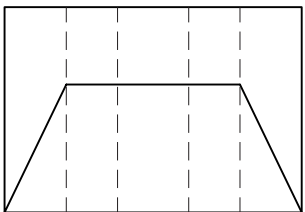
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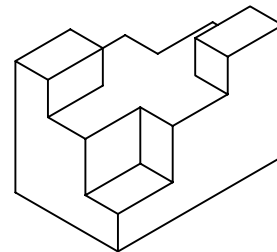
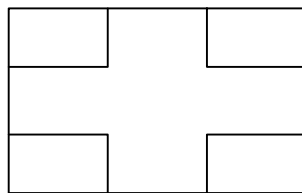
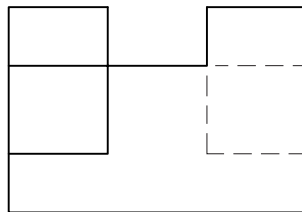
68.



69.



70.



71.

