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| If a line is perpendicular to each of two intersecting lines at their point of intersection, then the line is perpendicular to the plane determined by them. |  |  |
| Two planes are perpendicular to each other if and only if one plane contains a line perpendicular to the second plane. |  |  |
| If a line is perpendicular to a plane, then any line perpendicular to the given line at its point of intersection with the given plane is in the given plane. |  |  |
| If two planes are perpendicular to the same line, they are parallel. |  |  |
| Through a given point there passes one and only one line perpendicular to a given plane. |  |  |
| If a plane intersects two parallel planes,  then the intersection is two parallel lines. |  |  |
| The intersection of two planes is a line. |  |  |
| If two lines are perpendicular to  the same plane, then  the lines are coplanar. |  |  |
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