

*G.G.2 Know and apply that through a given point there passes one and only one plane perpendicular to a given line*

Examine the diagram of a pencil below:



Explain how the pencil illustrates the fact that if two lines are perpendicular to the same line, then they must be parallel.

Explain how the pencil illustrates the fact that if two lines are parallel and the first line is perpendicular to a third line, then the second line must be perpendicular to the third line.