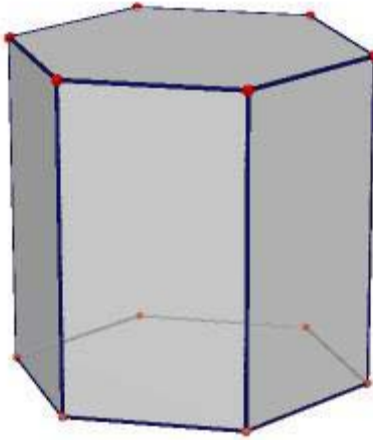


G.G.4 Know and apply that two lines perpendicular to the same plane are coplanar

1. The figure below is a right hexagonal prism.



On a copy of the figure sketch a symmetry plane. Then write a description of the symmetry plane that uses the word parallel. On a copy of the figure sketch another symmetry plane. Then write a description that uses the word perpendicular.

2. The figure below in three dimensional space, where \overline{AB} is perpendicular to \overline{BC} and \overline{DC} is perpendicular to \overline{BC} , illustrates that two lines perpendicular to the same line are not necessarily parallel. Must two lines perpendicular to the same plane be parallel? Discuss this problem with a partner.

