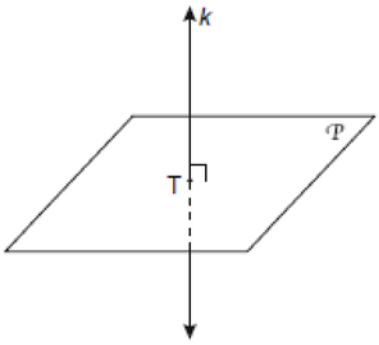
G.G.7: Planes: Know and apply that if a line is perpendicular to a plane, then every plane containing the line is perpendicular to the given plane

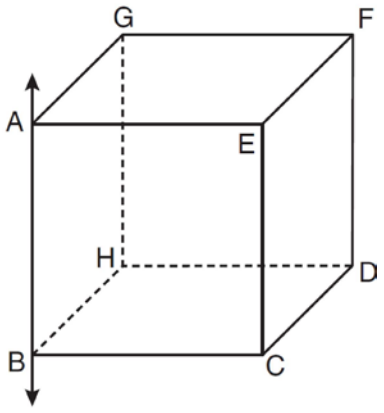
1 In the diagram below, line k is perpendicular to plane $\mathcal{P}$ at point T.



Which statement is true?

1) Any point in plane $\mathcal{P}$ also will be on line k.
2) Only one line in plane $\mathcal{P}$ will intersect line k.
3) All planes that intersect plane $\mathcal{P}$ will pass through T.
4) Any plane containing line k is perpendicular to plane $\mathcal{P}$.

2 In the diagram below, $\overleftrightarrow{AB}$ is perpendicular to plane $AEFG$.



Which plane must be perpendicular to plane $AEFG$?

1) $ABCE$
2) $BCDH$
3) $CDFE$
4) $HDFG$

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Answer Section

1 ANS: 4 REF: 080914ge
2 ANS: 1 REF: 081116ge