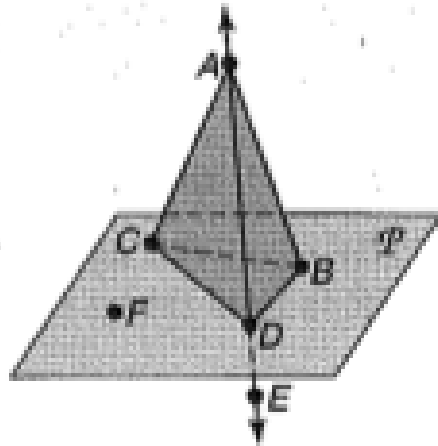


GEOMETRY - CHAPTER 1

Take Home Quiz

Use the figure below to answer questions 1 - 3.



- 1) Which three points in the figure are collinear?
 - A) C, D, F
 - B) B, C, D
 - C) A, E, F
 - D) A, D, E

- 2) Name the intersection of the plane that contains points A, B and D and plane **P**.
 - A) Point D
 - B) Triangle BCD
 - C) \overline{BD}
 - D) \overline{AD}

- 3) Which three points are non-coplanar?
 - A) C, A, D
 - B) D, B, C
 - C) E, D, C
 - D) F, C, B

Determine whether the given statement(s) below is always, sometimes, or never true.

- 4) Vertical angles are supplementary
- 5) Linear Pairs are adjacent

Use the given information to solve question 6.

Point B is located between points A and C. $AB = x^2 - 10$, $BC = 2x + 2$ and $AC = 16$

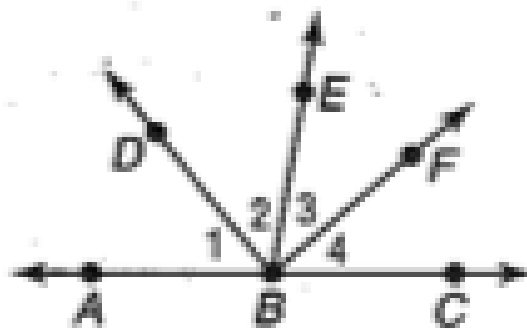
- 6) Solve for x

Use a coordinate plane to answer questions 7 & 8. You must plot all points and label all information.

- 7) The vertices of a triangle are located at $P(0, 6)$, $Q(8, 12)$ and $R(3, -3)$. What is the perimeter of this triangle?
- 8) Find the coordinates of the missing endpoint given that E is the midpoint of \overline{DF} . F is located at $(2, 9)$ and E is located at $(-1, 6)$

Use the given information and the picture to solve 9 & 10.

\overline{BF} bisects $\angle CBE$, and \overline{BD} bisects $\angle ABE$.



- 9) If $m\angle EBF = 6x + 4$ and $m\angle CBF = 7x - 2$, find $m\angle EBC$.
- 10) If $m\angle ABE = 6y + 2$ and $m\angle EBC = 8y - 18$, find $m\angle EBC$