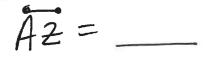
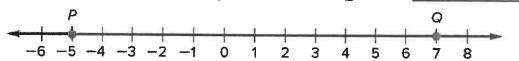
Module 1 TEST: Geometric Basics

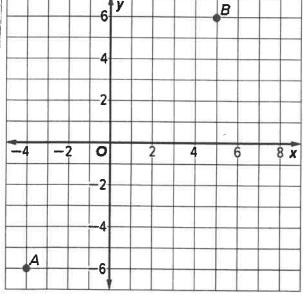
1) What is the length of \overline{AZ} ? Use the following information: A is between Y and Z, YA = 22, AZ = 16x, and YZ = 166.



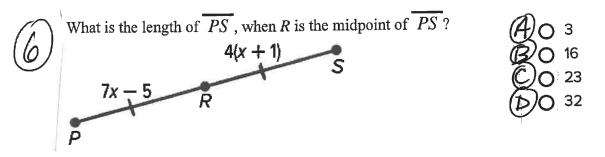
- 2) Use the following information to find x. Write the value of the variable.
 - B is between A and C;
 - AB = 3x + 6;
 - BC = 15x 2; and
 - $\overline{AB} \cong \overline{BC}$.
- The coordinate of point X on \overline{PQ} such that PX to XQ is 5:1 is ______.



- 4) B is between A and C. If AB = x + 2, BC = 2x 3, and AC = 5x 7, what is AB? AB =
 - Find the coordinate of point C on \overline{AB} such that the ratio of AC to CB is 3:6.

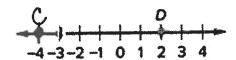


$$\begin{array}{cccc}
 & A & O & (-3\frac{1}{3}, -6) \\
 & B & O & (1, 1) \\
 & O & (-1, -2) \\
 & O & (6, 8)
\end{array}$$





Find the coordinate of point P that represents the weighted average where Point C weighs twice as much as point D.



(8)

Points A and B have coordinates A(-4, 2) and B(3, -6). Find the coordinates of point P, the weighted average of points A and B, in which point A has a weight of 4 and point B has a weight of 3.

- $(-\frac{7}{2}, -5)$
- $(-1, -\frac{10}{7})$
- $(-\frac{1}{2}, -2)$
- $\bigcirc 0, -\frac{20}{7}$

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1	7	
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What are the three undefined terms in Geometry?

- ☐ Bisect
- ☐ Plane
- ☐ Segment
- ☐ Angle
- ☐ Point
- ☐ Line
- ☐ Congruence



Find the coordinates of the midpoint of a segment with the endpoints (9, -3) and (5, 1).

(_____)

Midpoint Formula

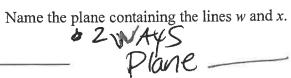
 $(x_M, y_M) = \left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2}\right)$

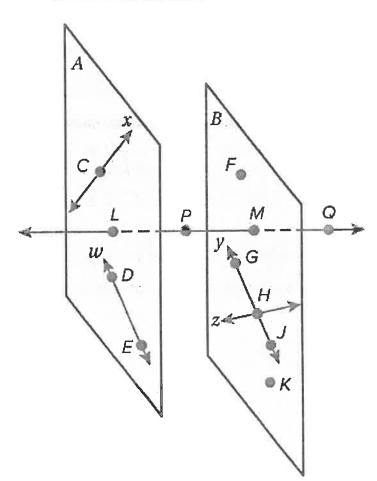
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Refer to the figure. Name the intersection of lines y and z.

Point _

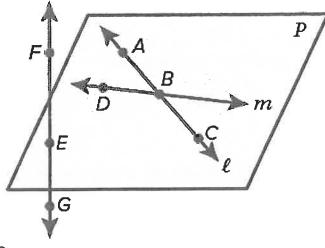
Plane _



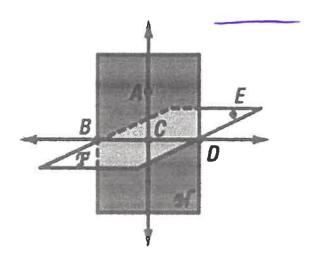


Which is not a point in plane P?













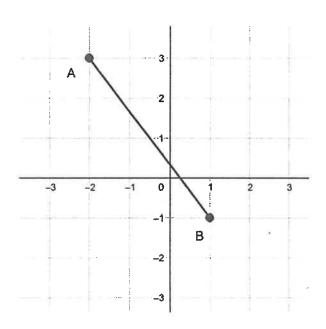
Find the distance of line AB.

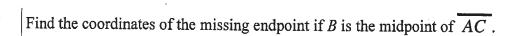
$$d = \sqrt{\left(x_2 - x_1
ight)^2 + \left(y_2 - y_1
ight)^2}$$

d = distance

 (x_1,y_1) = coordinates of the first point

 (x_2, y_2) = coordinates of the second point





*Craph to prove !!

C(-5,4), B(-2,5)

A(

