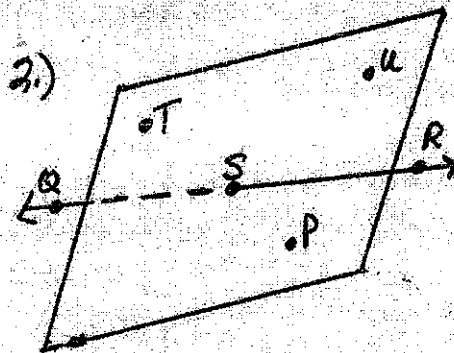


What are the names of 3 collinear points?

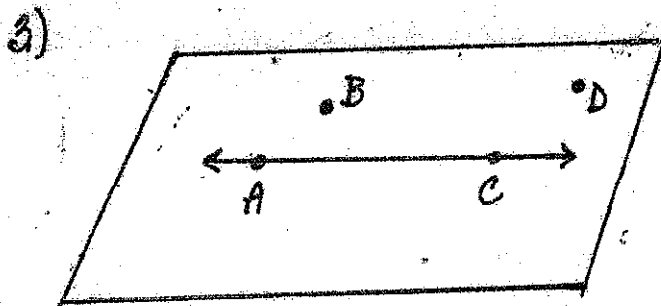
\overleftrightarrow{F} ; \overleftrightarrow{B} ; \overleftrightarrow{E}
on the same line



on same plane
↓

What are the names of four coplanar pts

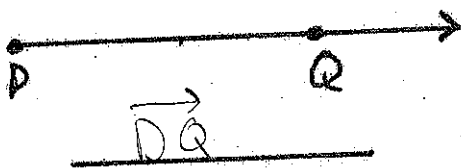
\overleftrightarrow{Q} ; \overleftrightarrow{S} ; \overleftrightarrow{U} ; \overleftrightarrow{P}



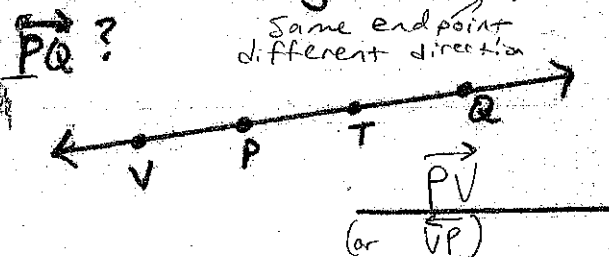
Name the line and plane shown in the diagram.

\overleftrightarrow{AC}
Plane ABC or
Plane ACD (or other combos)

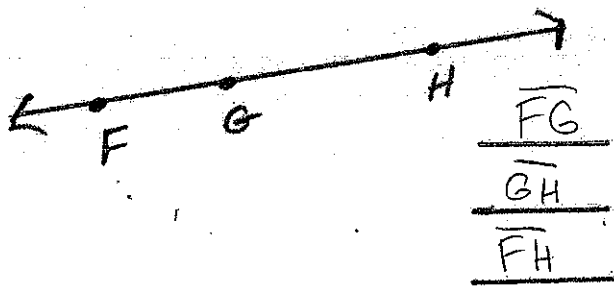
4.) Name the ray in the figure.



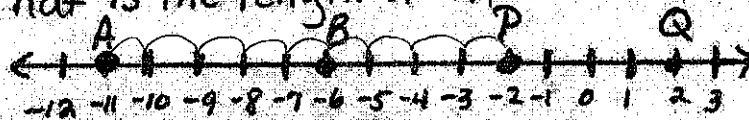
5.) What is the ray that is opposite



6.) What are the names of the three different segments in the figure?

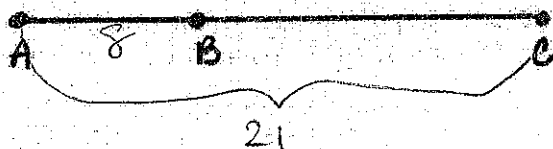


1.) What is the length of \overline{AP} .



9 units

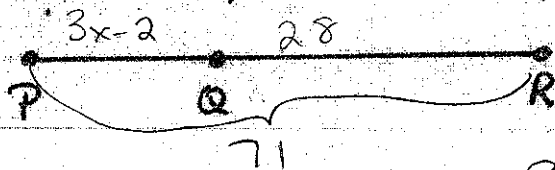
2.) If $AB = 8$ and $AC = 21$, find the value of BC .



$$8 + BC = 21$$

$$BC = 21 - 8 = \boxed{13}$$

3.) If $PQ = 3x - 2$, $QR = 28$, and $PR = 71$, find the value of x .

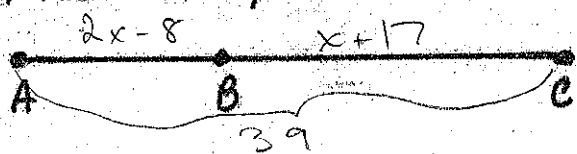


$$3x - 2 + 28 = 71$$

$$3x + 26 = 71$$

$$\begin{array}{r} 3x + 26 = 71 \\ -26 \quad -26 \\ \hline 3x = 45 \\ \frac{3x}{3} = \frac{45}{3} \\ x = 15 \end{array}$$

4.) If $AB = 2x - 8$, $BC = x + 17$, and $AC = 39$ m. Find the value of x , AB , and BC .



$$2x - 8 + x + 17 = 39$$

$$3x + 9 = 39$$

$$\begin{array}{r} 3x + 9 = 39 \\ -9 \quad -9 \\ \hline 3x = 30 \\ \frac{3x}{3} = \frac{30}{3} \\ x = 10 \end{array}$$

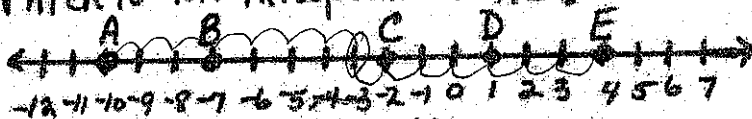
$$AB = 2(10) - 8$$

$$\boxed{AB = 12}$$

$$BC = (10) + 17$$

$$\boxed{BC = 27}$$

5.) Which is the midpoint of \overline{AE} ?

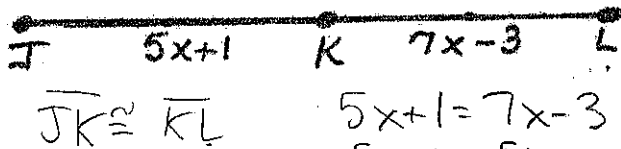


$$AE = 14$$

$$14 \div 2 = 7$$

$\boxed{-3}$

6.) If K is the midpoint of \overline{JL} , what are JK , KL and JL .



$$\overline{JK} \cong \overline{KL}$$

$$5x + 1 = 7x - 3$$

$$\begin{array}{r} 5x + 1 = 7x - 3 \\ -5x \quad -5x \\ \hline 1 = 2x - 3 \\ +3 \quad +3 \\ \hline 4 = 2x \end{array}$$

$$\frac{4}{2} = \frac{2x}{2}$$

$$\boxed{2 = x}$$

$$JK = 5(2) + 1$$

$$\boxed{JK = 11}$$

$$KL = 7(2) - 3$$

$$\boxed{KL = 11}$$

$$JL = JK + KL = 11 + 11$$

$$\boxed{JL = 22}$$