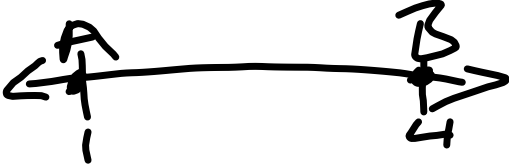
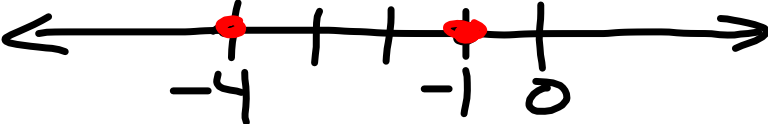


distance between two points on a number line.

$$AB = |a - b| = |b - a|$$

naming a segment, line or ray.

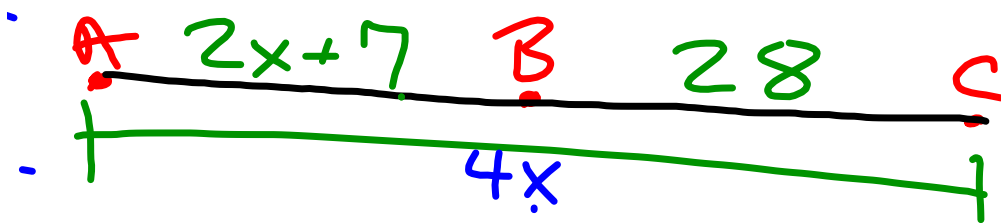
\overline{AB} seg. 
 \overleftrightarrow{AB} line $|1 - 4|$ $|4 - 1|$
 \overrightarrow{AB} ray $|-3|$ $|3|$
 (3) (3)


 $(-4 - (-1))$
 $| -3 | = 3$

*know how to construct segments using a ruler or number line.

Segment addition postulate.

IF B is between A and C, then $AB + BC = AC$



$$\begin{array}{r} 2x + 7 + 28 = 4x \\ -2x \qquad \qquad \qquad -2x \\ \hline \end{array}$$

$$7 + 28 = 2x$$

$$\overline{AB} = 42$$

$$\begin{array}{r} 35 = 2x \\ \hline 2 \qquad \qquad \hline 2 \end{array}$$

$$\overline{AC} = 70$$

$$17.5 = x$$



\overline{PT} Midpoint = S

$$PS \cong ST$$

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

$$PS = 10$$

$$PT = 20$$

