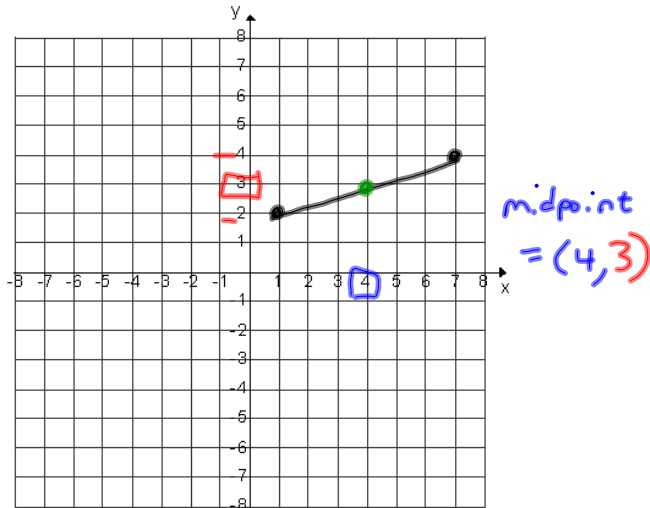


9-6-13
5th Geo

Midpoint



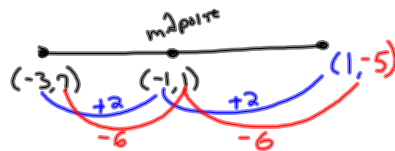
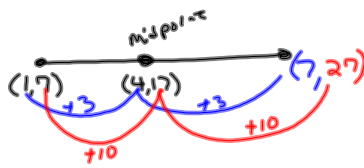
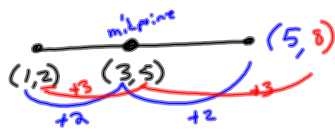
Find the midpoint of $(\underline{2}, \underline{7})$ and $(\underline{3}, \underline{17})$

$$\text{Midpoint} = \left(\frac{2+3}{2}, \frac{7+17}{2} \right)$$
$$\left(2\frac{1}{2}, 12 \right)$$

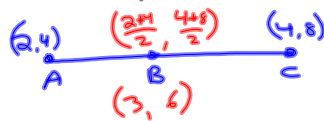
If I had to give a formula, it would be $\left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$

Find the midpoint of $(-2, -3)$ and $(-4, 13)$

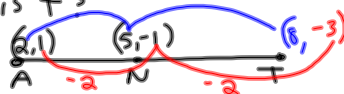
$$\text{midpoint} = \left(\frac{-2 + -4}{2}, \frac{-3 + 13}{2} \right)$$
$$(-3, 5)$$



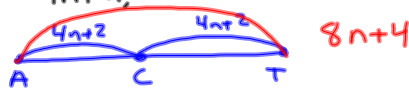
B is midpoint of \overline{AC} with
 $A = (2, 4)$ and $C = (4, 8)$.
 Where is B?



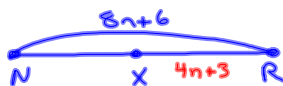
N is midpoint of \overline{AT} with
 $A = (2, 1)$ and $N = (5, -1)$. Where
 is T?



C is midpoint of \overline{AT} . If
 $CT = 4n + 2$, what is AT ?



X is midpoint of \overline{NR} . If
 $NR = 8n + 6$, what is XR ?

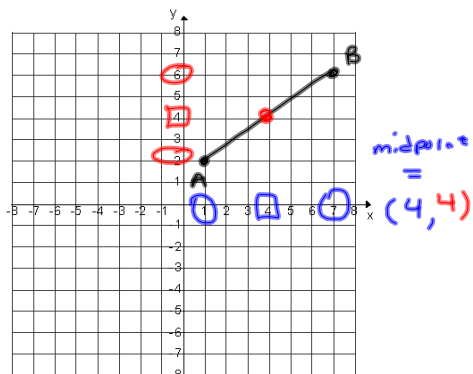
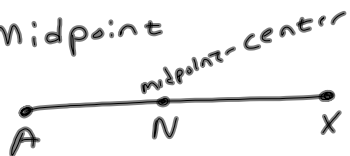


B is midpoint \overline{TY} . If
 $TB = 8n - 2$, what is BY ?



9-6-13
6th Geo

Midpoint



Find the midpoint of $(1, 6)$ and $(3, 16)$

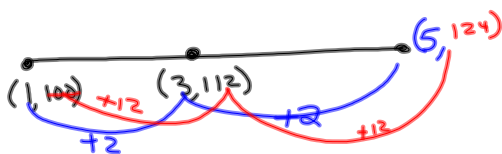
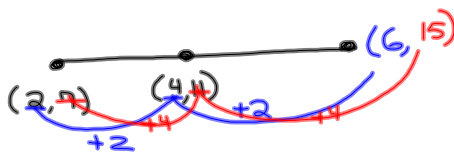
$$\left(\frac{1+3}{2}, \frac{6+16}{2} \right)$$
$$(2, 11)$$

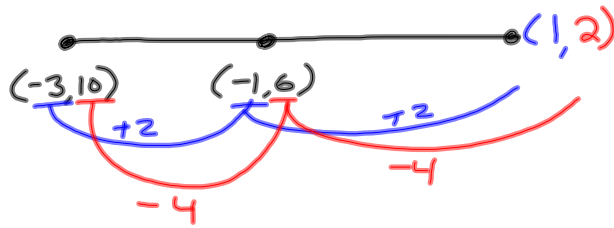
Find the midpoint of $(-2, 6)$ and $(-6, 1)$

$$\left(\frac{-2+(-6)}{2}, \frac{6+1}{2} \right)$$
$$\left(-4, 3\frac{1}{2} \right)$$

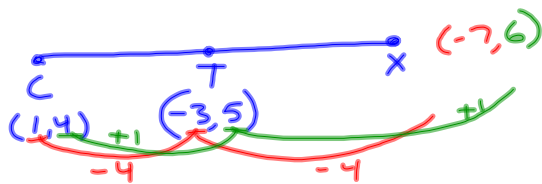
What is formula for midpoint

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

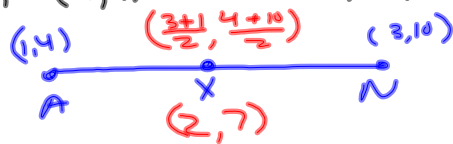




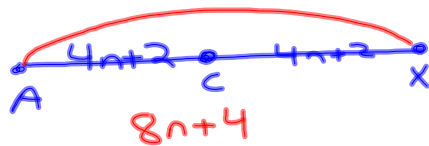
T is midpoint of \overline{CX} . If $C = (1, 4)$ and $T = (-3, 5)$, where is X?



X is midpoint of \overline{AN} . If $A = (1, 4)$ and $N = (3, 10)$, where is X?



C is midpoint of \overline{AX} . If $CA = 4n + 2$, what is AX?



A is midpoint of \overline{QZ} . If $QZ = 6n - 2$, what is QA?

