

9-10-13
1st Geo

Midpoint continued

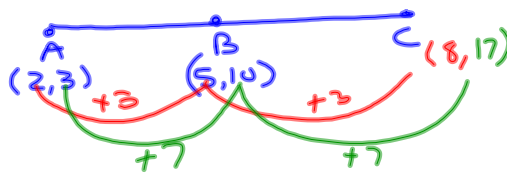
- ① Find midpoint of
 $(2, 5)$ and $(8, 7)$.

$$\left(\frac{2+8}{2}, \frac{5+7}{2} \right)$$
$$(5, 6)$$

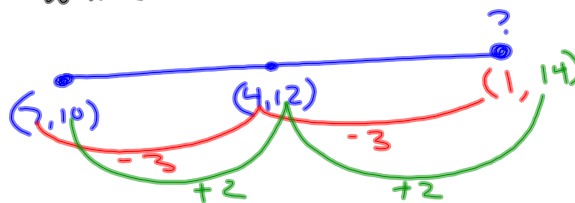
- ② Find the midpoint of
 $(1, 7)$ and $(3, -7)$

$$\left(\frac{1+3}{2}, \frac{7+(-7)}{2} \right)$$
$$(2, 0)$$

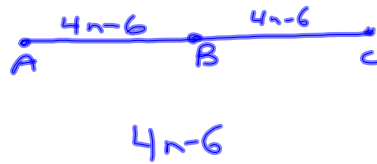
- ③ \overline{AC} has a midpoint at B.
A is at $(2, 3)$ and B is at $(5, 10)$.
Where is C?



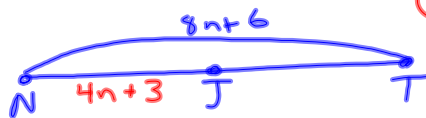
- ④ One endpoint is at $(7, 10)$ and
the midpoint is at $(4, 12)$.
Where is the other endpoint?



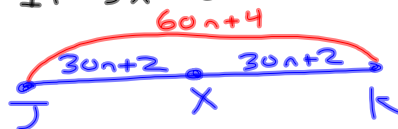
- ⑤ \overline{AC} has B as a midpoint.
If $AB = 4n - 6$, what is BC ?



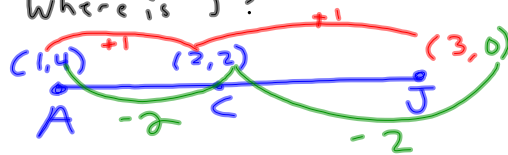
- ⑥ \overline{NT} has a midpoint at J .
If $NT = 8n + 6$, what is NJ ?



- ⑦ \overline{JK} has midpoint at X .
If $JX = 30n + 2$, what is JK ?



- ⑧ If C is midpoint of \overline{AJ}
with $A = (1, 4)$ and $C = (2, 2)$,
Where is J ?



- ⑨ B is midpoint of \overline{AN} . If
 $BN = 6n - 2$, what is AN ?

