

Integers and Variables Homework

Name _____

Find the value of x to make the equation true

1) $-6 - 2 + 3 + x = 0$

$-5 + x = 0$
 $x = 5$

3) $17 + x + 10 - (-3) + (-12) = 0$

$x + 18 = 0$
 $x = -18$

2) $-4 - (-3) + x = 0$

$-1 + x = 0$
 $x = 1$

4) $x + (-8) - (-2) + 7 - 2 + 1 = -7$

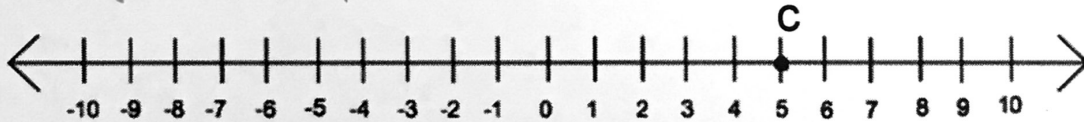
$x + 0 = -7$
 $x = -7$

5) An equation is shown, where $a < 0$ and $c > 0$.

$a + b = c$

Plot two points on the number line to show the locations of a and b .

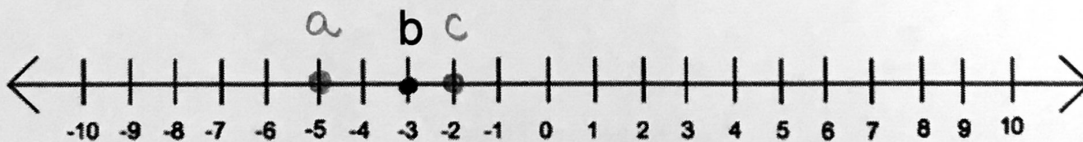
(Plot two points which add to 5)



6) An equation is shown, where $b < 0$ and $c < 0$. Example: $a - (-3) = -2$

$a - b = c$

Plot two points on the number line to show the locations of a and c .



7) $a - b = c$

If $a > 0$ and $b < 0$, what must be true about c ?

- A. $c > 0$
- B. $c < 0$
- C. $c = 0$
- D. $c = b$

$4 - (-2) = 6$

8) $a - 21 = a + b$

What must be true about b ?

$b = -21$