

For #1 and #2, evaluate the following when $x = -3$, $y = -5$, and $z = -2$

1) $4(2x + y) - 7z$

2) $\frac{x+y}{2x+2y}$


3) Explain, using complete sentences, why $x = 2$ in the following equation:


$$3x = 6$$

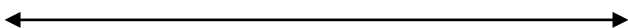
4) Explain, using complete sentences, why $x = 5$ in the following equation:

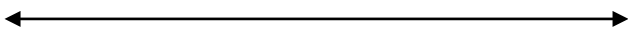
$$7 = \frac{35}{x}$$

Graph the following inequalities on the number lines provided.

5) $x > 7$ 

6) $x \leq -8$ 

7) $10 > x$ 

8) $-5 \leq x$ 

9) Write two terms whose GCF is 8.

10) Three vertices of a parallelogram are $(-1, -1)$, $(1, 2)$ and $(5, -1)$. Recall that vertices are the corners of a parallelogram. What is the coordinate point of the 4th vertex of this parallelogram?