

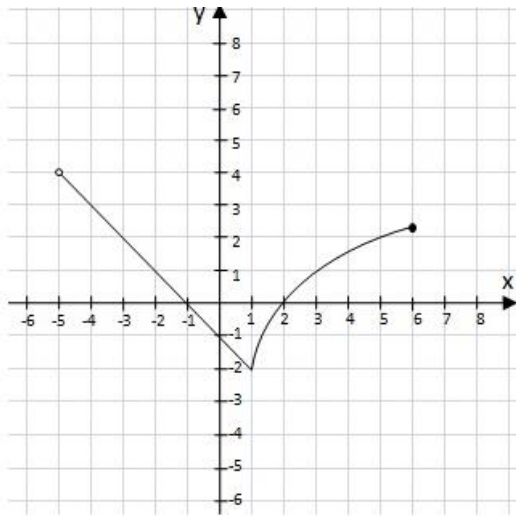
PAP Algebra II
Evaluate: Notation and Intervals

Name: _____

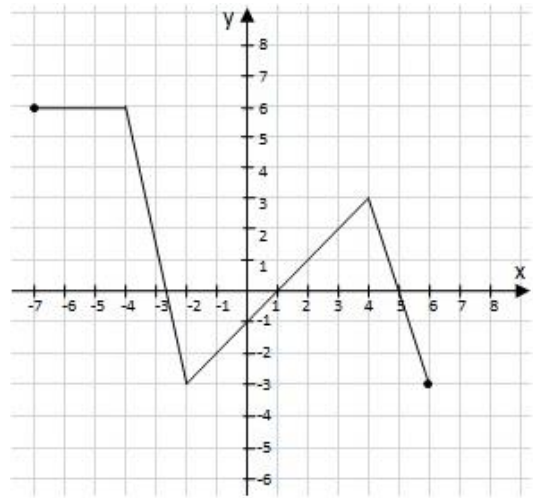


Determine the intervals where the graph is increasing, decreasing, constant, positive, and negative.

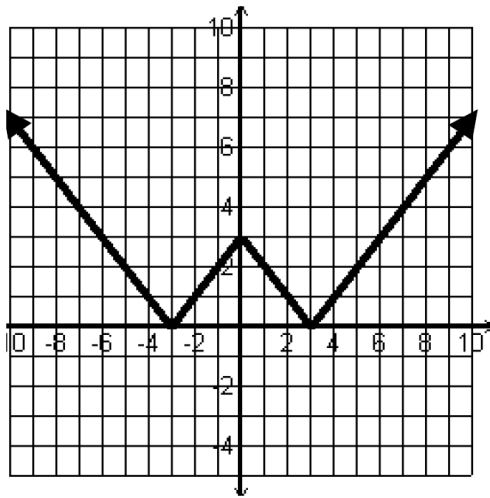
1.



2.



3.



4. Rewrite the following inequality in interval notation and sketch a graph on a number line.

$$-2 \leq x < 4$$



5. Rewrite the following interval in inequality notation and sketch a graph on a number line.

$$(-\infty, 2) \cup [5, \infty)$$

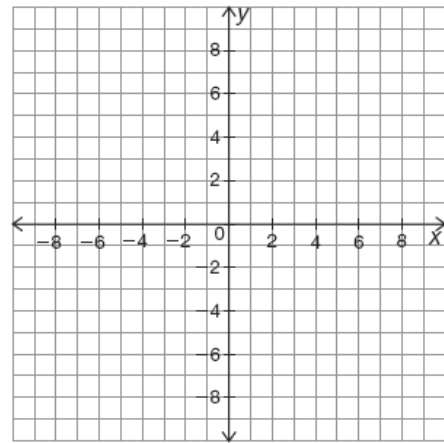


Create the graphs given the following attributes.

6. Linear

Domain: \mathbb{R}

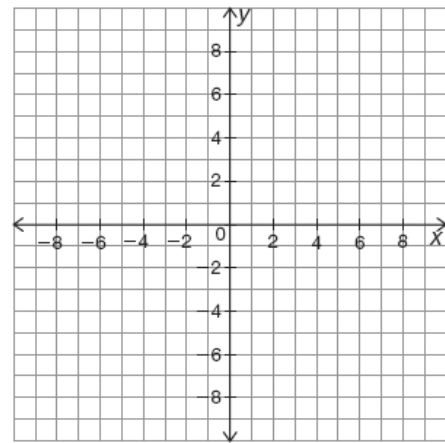
Range: $-\infty < y \leq 6$



7. U or V shaped

Increasing interval: $(-8, -4)$

Decreasing interval: $(-4, 2)$



8. U or V shaped

Constant at $x = -2$

Positive intervals: $[-6, -4) \cup (1, \infty)$

Negative interval: $(-4, 1)$

