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: \((-4, 1)\)