

8TH GRADE PIECE-WISE FUNCTIONS

PLEASE GRAPH THE FOLLOWING PIECE-WISE FUNCTIONS.

BE SURE TO SHOW A TABLE OF ORDERED PAIRS.

COMPLETELY LABEL YOUR GRAPH.

$$\textcircled{1} f(x) = \begin{cases} -x-3 & \text{WHEN } x \leq -1 \\ 2x+3 & \text{WHEN } x > -1 \end{cases} \quad \textcircled{6} f(x) = \begin{cases} x+4 & \text{WHEN } x < 3 \\ -2x+4 & \text{WHEN } x \geq 3 \end{cases}$$

$$\textcircled{2} f(x) = \begin{cases} -x+5 & \text{WHEN } x \geq 3 \\ \frac{1}{2}x+1 & \text{WHEN } x < 3 \end{cases} \quad \textcircled{7} f(x) = \begin{cases} -3x+4 & \text{WHEN } x \leq -2 \\ x+1 & \text{WHEN } x > -2 \end{cases}$$

$$\textcircled{3} f(x) = \begin{cases} -\frac{3}{2}x-3 & \text{WHEN } x < 0 \\ 1 & \text{WHEN } x \geq 0 \end{cases} \quad \textcircled{8} f(x) = \begin{cases} -2x+1 & \text{WHEN } x \leq 2 \\ 5x-4 & \text{WHEN } x > 2 \end{cases}$$

$$\textcircled{4} f(x) = \begin{cases} x+1 & \text{WHEN } x \geq -2 \\ 2x+2 & \text{WHEN } x < -2 \end{cases} \quad \textcircled{9} f(x) = \begin{cases} -\frac{1}{2}x+3 & \text{WHEN } x < 3 \\ 2x+1 & \text{WHEN } x \geq 3 \end{cases}$$

$$\textcircled{5} f(x) = \begin{cases} -3x+1 & \text{WHEN } x \leq 6 \\ \frac{2}{3}x+3 & \text{WHEN } x > 6 \end{cases} \quad \textcircled{10} f(x) = \begin{cases} -2x-1 & \text{WHEN } x \leq 2 \\ -x+4 & \text{WHEN } x > 2 \end{cases}$$

★ CONSIDER THE APPROPRIATE SCALE FOR YOUR GRAPH.