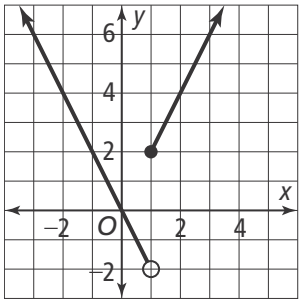
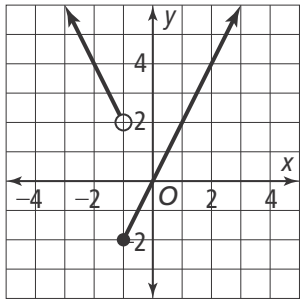
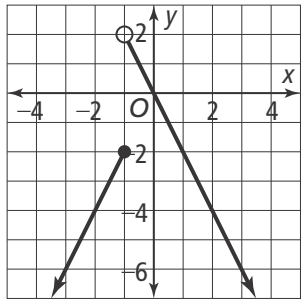
5-2 Reteach to Build Understanding

Piecewise-Defined Functions

1. Match each piecewise-defined function with its graph.







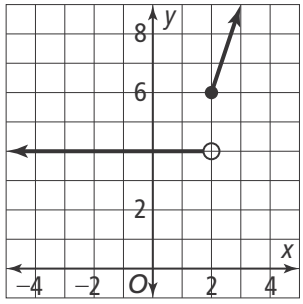
$y = \begin{cases} -2x, x < -1 \\ 2x, x \geq -1 \end{cases}$

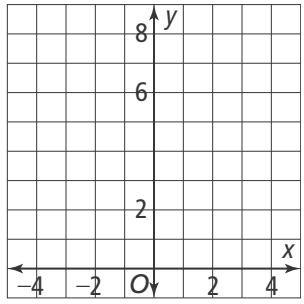
$y = \begin{cases} 2x, x \leq -1 \\ -2x, x > -1 \end{cases}$

$y = \begin{cases} -2x, x < 1 \\ 2x, x \geq 1 \end{cases}$

2. Describe the error Bart made when graphing the piecewise-defined function shown. Graph the function correctly.

$f(x) = \begin{cases} 4, x \leq 2 \\ 3x, x > 2 \end{cases}$





3. Write a piecewise-defined function that describes the graph shown.

$y = \begin{cases} \_\_\_\_\_, x \_\_\_\_\_ 5 \\ \_\_\_\_\_, x \_\_\_\_\_ 5 \end{cases}$