

Graphing Piecewise Functions

★ Single constraint = arrow on 1 end, dot on the other ★ Double constraints = dots on both ends (no arrows)

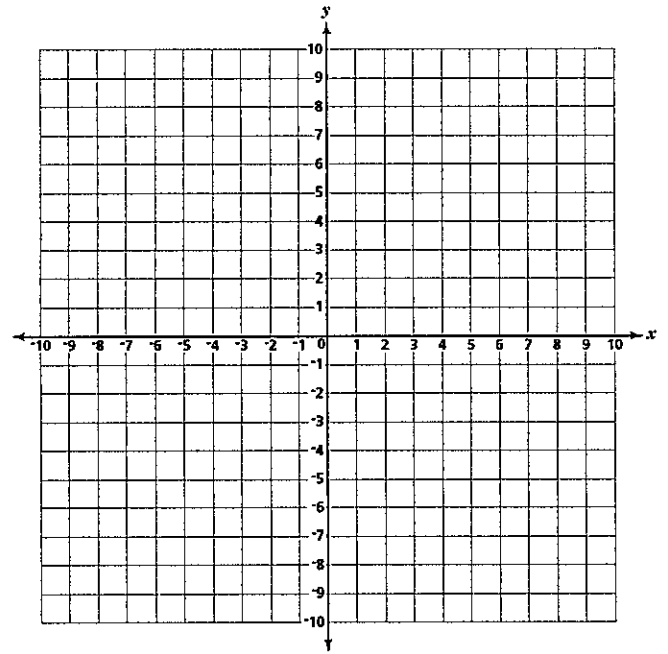
#s 1-5: Graph the following

★ Do NOT put constraints into $y=$ when getting the table #5 from the calculator

★ Constraint values must be the 1st or last # in the table

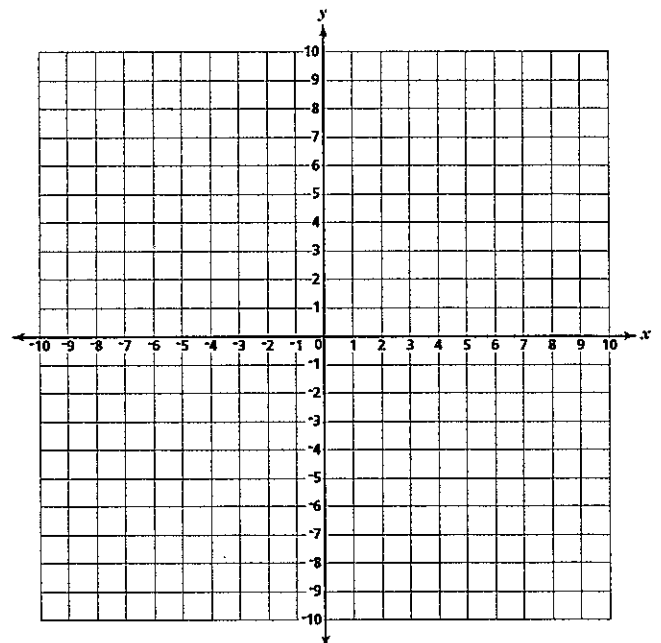
1)

$$f(x) = \begin{cases} 2x+4, & \text{if } x < -1 \\ -x+3, & \text{if } x \geq -1 \end{cases}$$



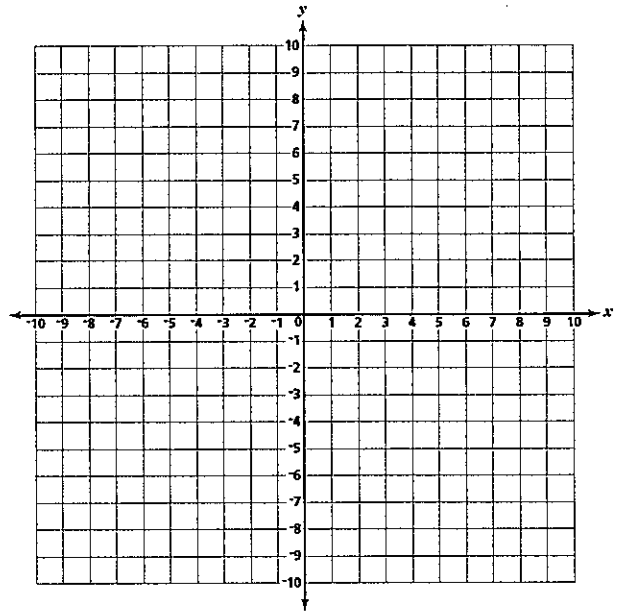
2)

$$f(x) = \begin{cases} -2x, & \text{if } x \leq 1 \\ x-4, & \text{if } x > 1 \end{cases}$$



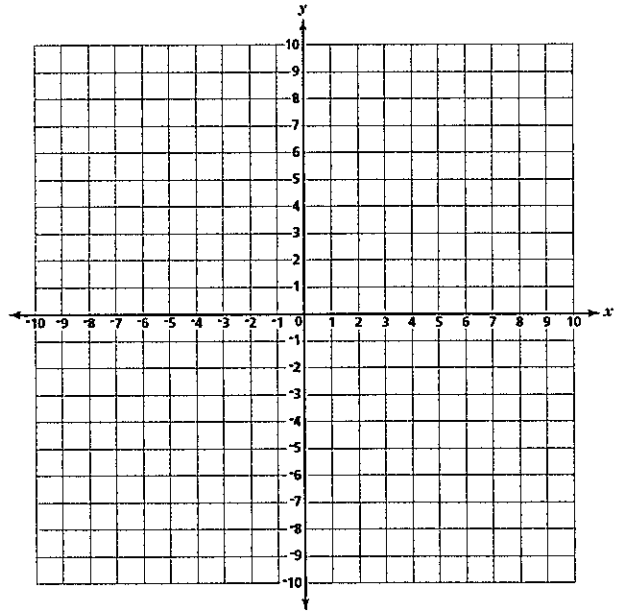
3)

$$f(x) = \begin{cases} -x & \text{if } x \leq 2 \\ x & \text{if } x > 2 \end{cases}$$



4)

$$f(x) = \begin{cases} 2, & x > -3 \\ -5, & x < -3 \end{cases}$$



5)

$$f(x) = \begin{cases} x+4, & \text{if } -6 \leq x < 2 \\ -6, & \text{if } x = 2 \\ -x+2, & \text{if } x > 2 \end{cases}$$

