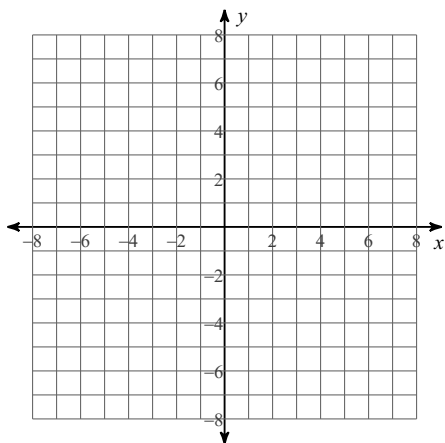


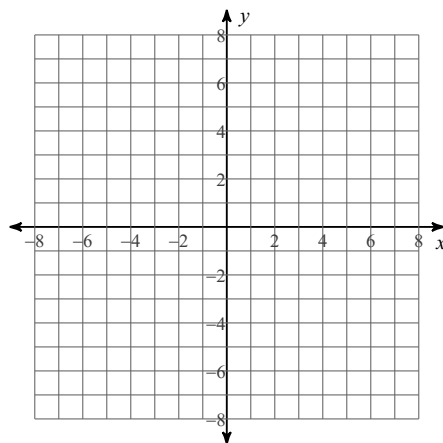
# Graphing Piecewise Functions

Sketch the graph of each function.

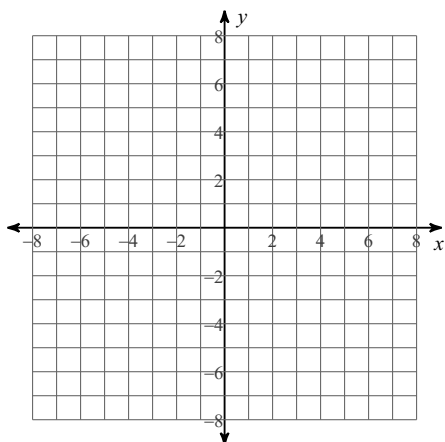
$$1) f(x) = \begin{cases} -2x - 3, & x \leq -2 \\ -x + 4, & -2 < x \leq 3 \\ -5, & x > 3 \end{cases}$$



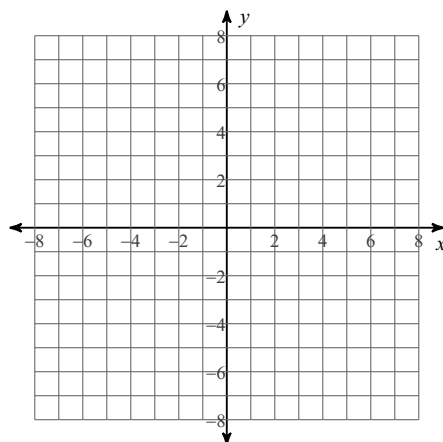
$$2) f(x) = \begin{cases} -1, & x \leq -4 \\ 2x + 2, & -4 < x \leq 0 \\ 3, & x > 0 \end{cases}$$



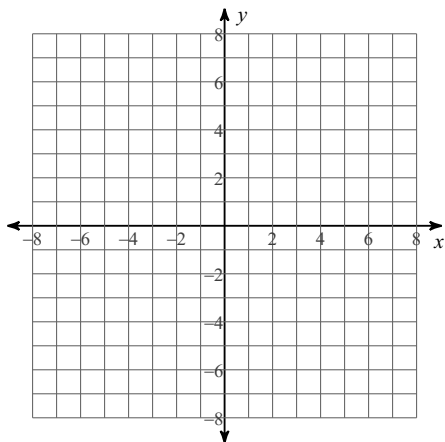
$$3) f(x) = \begin{cases} x - 2, & x \leq -2 \\ -x - 3, & x > -2 \end{cases}$$



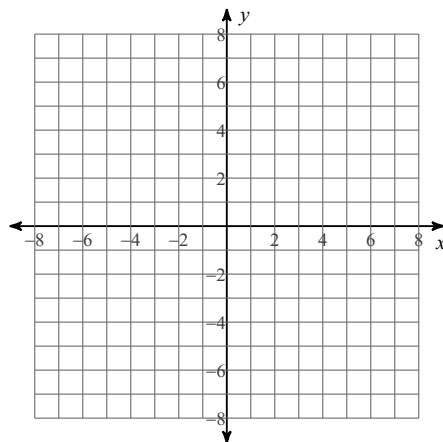
$$4) h(x) = \begin{cases} -x, & x \leq -2 \\ 2, & x > -2 \end{cases}$$



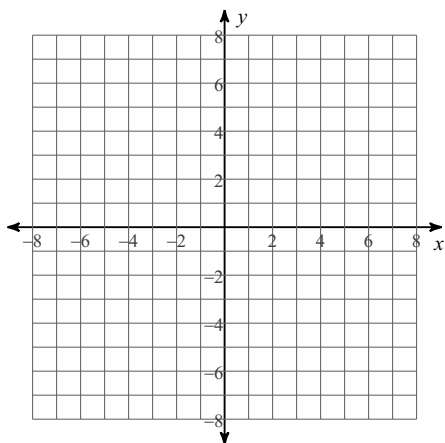
$$5) w(x) = \begin{cases} x + 4, & x < -4 \\ -4, & x \geq -4 \end{cases}$$



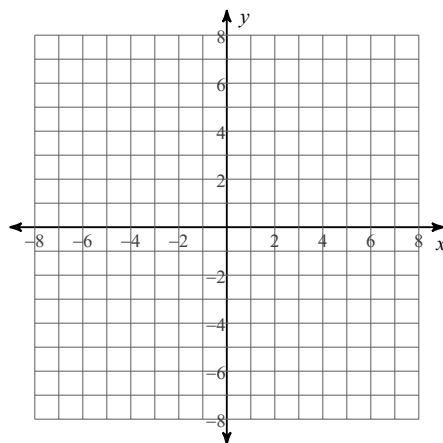
$$6) w(x) = \begin{cases} -x, & x < -4 \\ -1, & -4 \leq x < 2 \\ -x + 4, & x \geq 2 \end{cases}$$



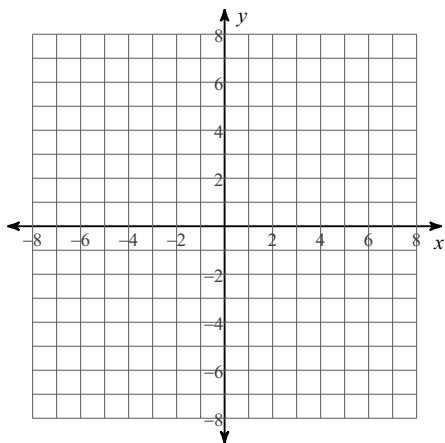
$$7) f(x) = \begin{cases} -4, & x \leq 1 \\ x + 2, & x > 1 \end{cases}$$



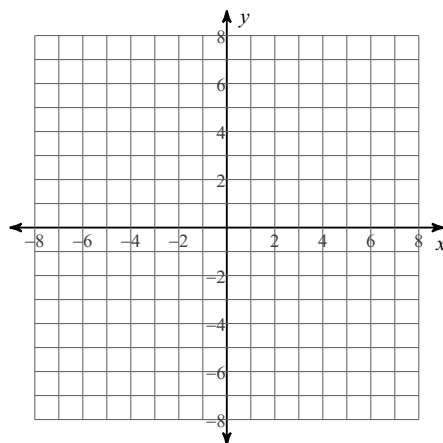
$$8) g(x) = \begin{cases} -5, & x < 4 \\ 3, & x \geq 4 \end{cases}$$



$$9) g(x) = \begin{cases} x + 1, & x < -4 \\ -x - 4, & x \geq -4 \end{cases}$$



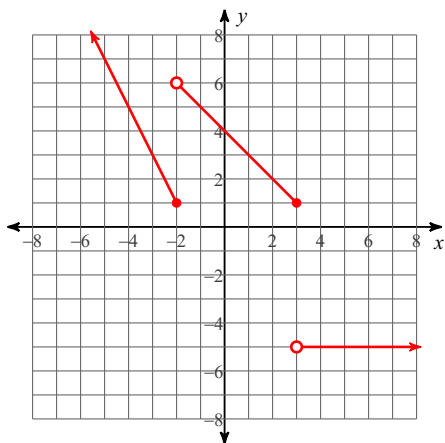
$$10) f(x) = \begin{cases} -6, & x \leq -4 \\ 0, & -4 < x < 1 \\ -x - 1, & x \geq 1 \end{cases}$$



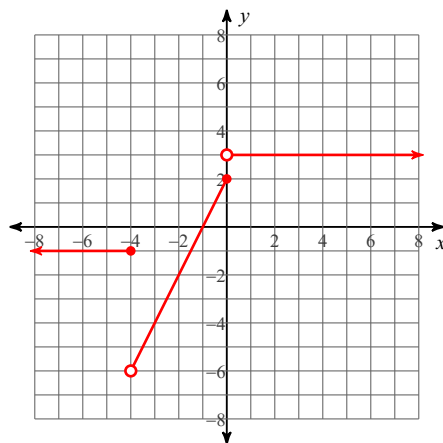
# Graphing Piecewise Functions

Sketch the graph of each function.

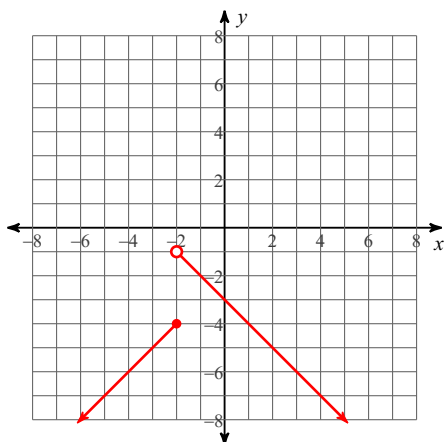
$$1) f(x) = \begin{cases} -2x - 3, & x \leq -2 \\ -x + 4, & -2 < x \leq 3 \\ -5, & x > 3 \end{cases}$$



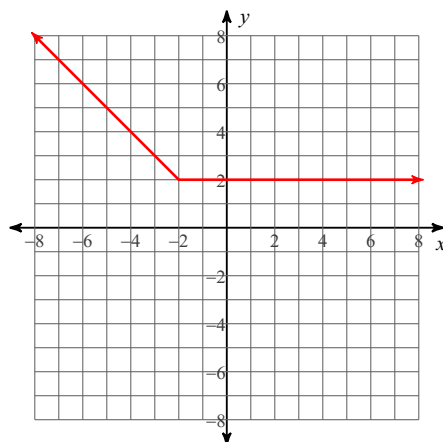
$$2) f(x) = \begin{cases} -1, & x \leq -4 \\ 2x + 2, & -4 < x \leq 0 \\ 3, & x > 0 \end{cases}$$



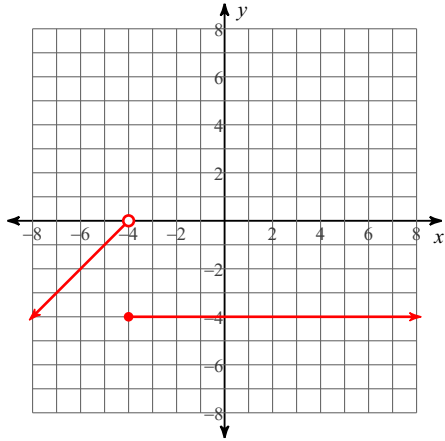
$$3) f(x) = \begin{cases} x - 2, & x \leq -2 \\ -x - 3, & x > -2 \end{cases}$$



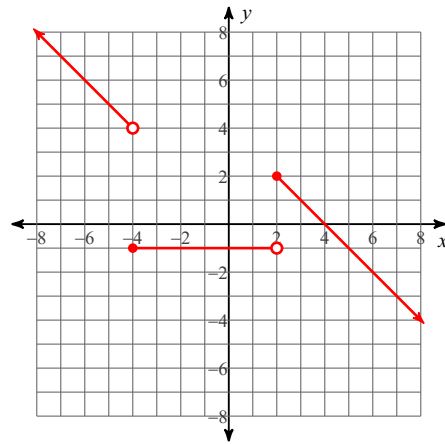
$$4) h(x) = \begin{cases} -x, & x \leq -2 \\ 2, & x > -2 \end{cases}$$



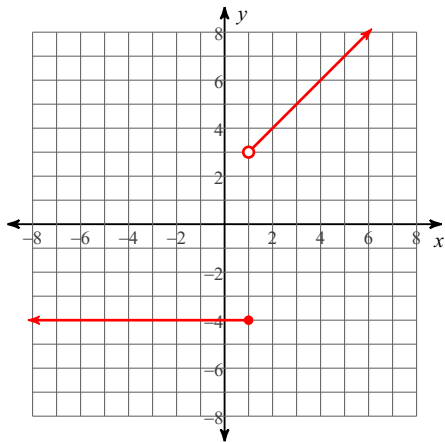
$$5) w(x) = \begin{cases} x + 4, & x < -4 \\ -4, & x \geq -4 \end{cases}$$



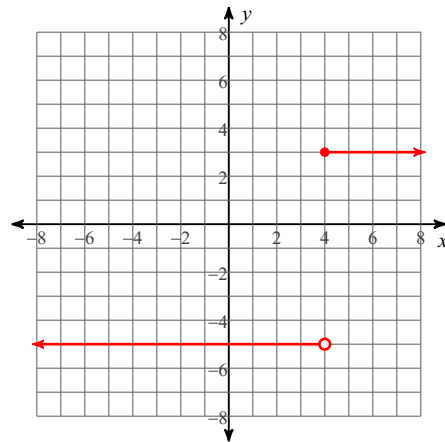
$$6) w(x) = \begin{cases} -x, & x < -4 \\ -1, & -4 \leq x < 2 \\ -x + 4, & x \geq 2 \end{cases}$$



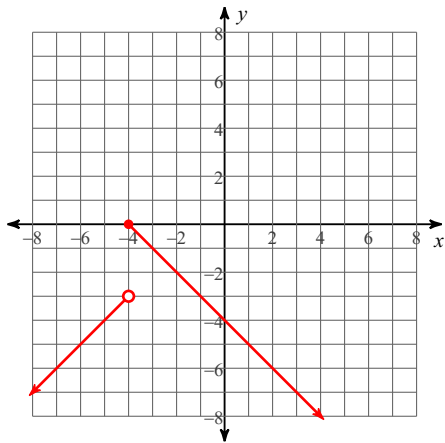
$$7) f(x) = \begin{cases} -4, & x \leq 1 \\ x + 2, & x > 1 \end{cases}$$



$$8) g(x) = \begin{cases} -5, & x < 4 \\ 3, & x \geq 4 \end{cases}$$



$$9) g(x) = \begin{cases} x + 1, & x < -4 \\ -x - 4, & x \geq -4 \end{cases}$$



$$10) f(x) = \begin{cases} -6, & x \leq -4 \\ 0, & -4 < x < 1 \\ -x - 1, & x \geq 1 \end{cases}$$

