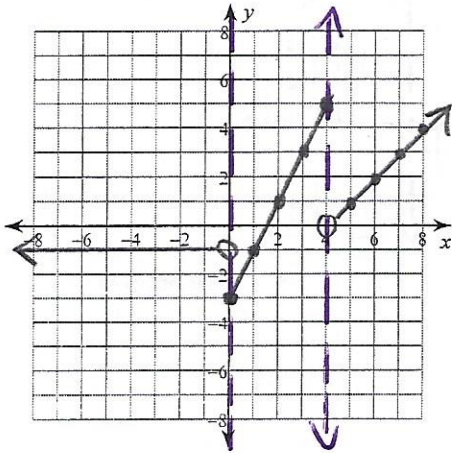


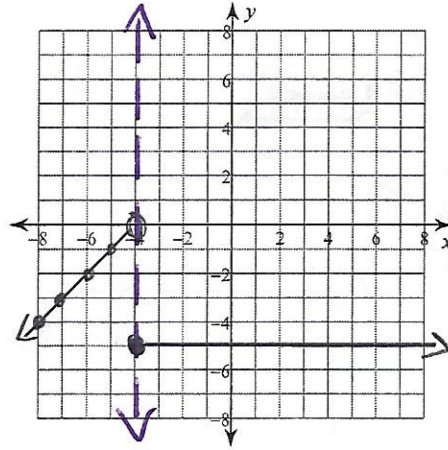
Graphing Piecewise Functions

Sketch the graph of each function.

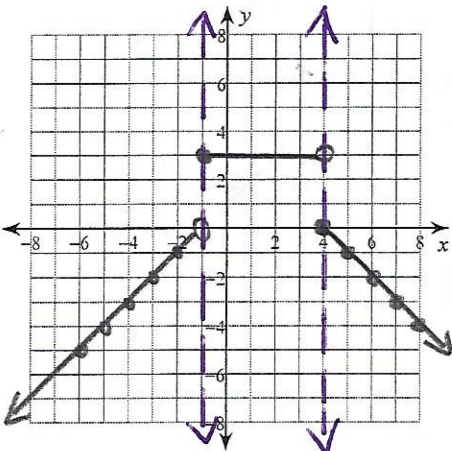
3) $g(x) = \begin{cases} -1, & x < 0 \\ 2x - 3, & 0 \leq x \leq 4 \\ x - 4, & x > 4 \end{cases}$



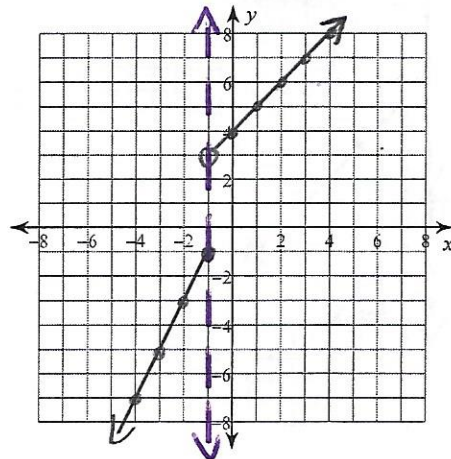
2) $f(x) = \begin{cases} x + 4, & x < -4 \\ -5, & x \geq -4 \end{cases}$



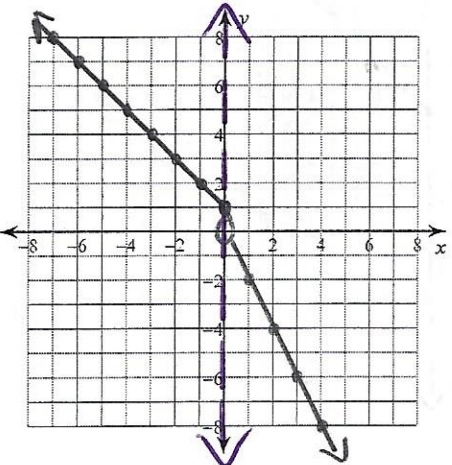
3) $g(x) = \begin{cases} x + 1, & x < -1 \\ 3, & -1 \leq x < 4 \\ -x + 4, & x \geq 4 \end{cases}$



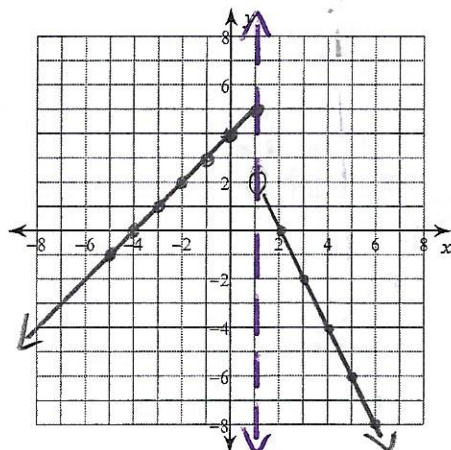
2) $f(x) = \begin{cases} 2x + 1, & x \leq -1 \\ x + 4, & x > -1 \end{cases}$



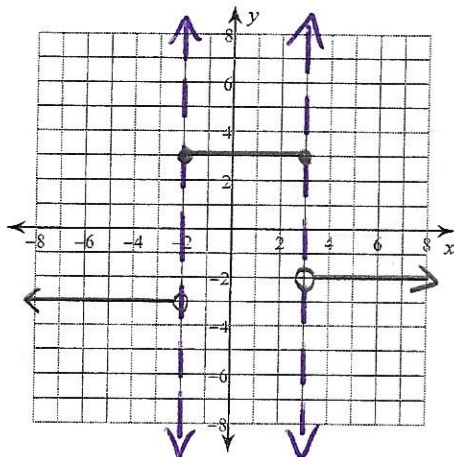
2) $f(x) = \begin{cases} -x + 1, & x \leq 0 \\ -2x, & x > 0 \end{cases}$



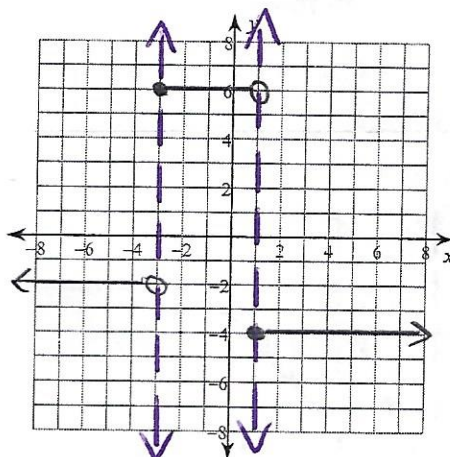
2) $h(x) = \begin{cases} x + 4, & x \leq 1 \\ -2x + 4, & x > 1 \end{cases}$



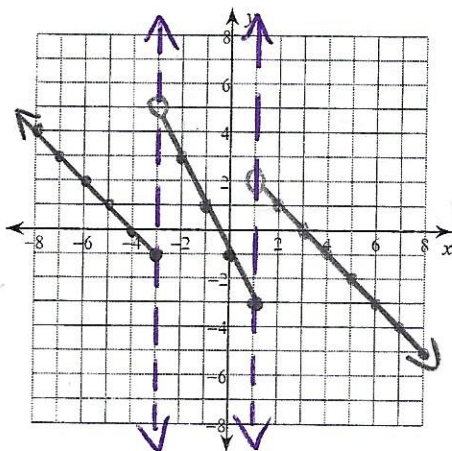
$$7) f(x) = \begin{cases} -3, & x < -2 \\ 3, & -2 \leq x \leq 3 \\ -2, & x > 3 \end{cases}$$



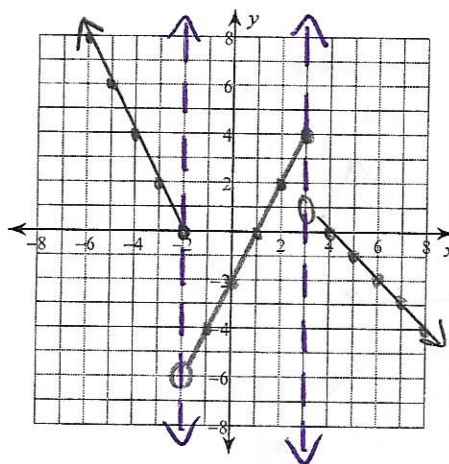
$$8) g(x) = \begin{cases} -2, & x < -1 \\ 6, & -3 \leq x < 1 \\ -4, & x \geq 1 \end{cases}$$



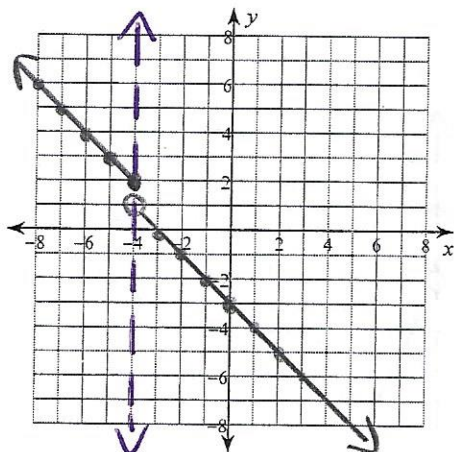
$$9) g(x) = \begin{cases} -x - 4, & x \leq -3 \\ -2x - 1, & -3 < x \leq 1 \\ -x + 3, & x > 1 \end{cases}$$



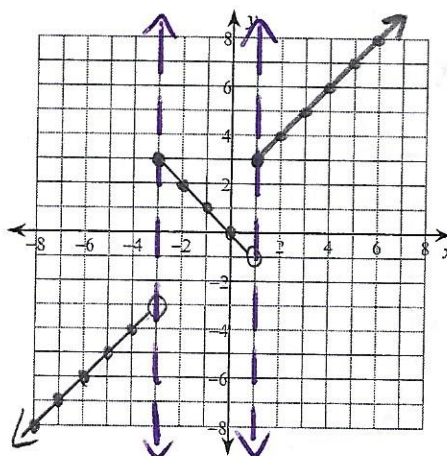
$$10) g(x) = \begin{cases} -2x - 4, & x \leq -2 \\ 2x - 2, & -2 < x \leq 3 \\ -x + 4, & x > 3 \end{cases}$$



$$11) g(x) = \begin{cases} -x - 2, & x \leq -4 \\ -x - 3, & x > -4 \end{cases}$$



$$12) f(x) = \begin{cases} x, & x < -3 \\ -x, & -3 \leq x < 1 \\ x + 2, & x \geq 1 \end{cases}$$



$$\textcircled{1} \begin{cases} \frac{1}{2}x+1; -2 \leq x \leq 2 \\ -2; 2 < x \leq 4 \end{cases}$$

$$\textcircled{2} \begin{cases} x+5; -4 \leq x < -1 \\ 4; -1 < x < 1 \\ -x+5; -1 < x \leq 3 \end{cases}$$

$$\textcircled{3} \begin{cases} 3; -4 \leq x \leq -1 \\ -2x+1; -1 \leq x \leq 3 \\ x-4; 3 < x \leq 5 \end{cases}$$

$$\textcircled{4} \begin{cases} 5; x \leq 2 \\ 2x-3; x > 2 \end{cases}$$

$$\textcircled{5} \begin{cases} 1; x < 2 \\ -1; x \geq 2 \end{cases}$$

$$\textcircled{6} \begin{cases} 1; x \leq 1 \\ x+1; x > 1 \end{cases}$$

$$\textcircled{7} \begin{cases} 2x+3; x < -1 \\ -x+3; x \geq -1 \end{cases}$$

$$\textcircled{8} \begin{cases} x+3; -2 \leq x \leq 0 \\ -x+3; 0 \leq x < 2 \\ -2x+2; x \geq 2 \end{cases}$$

$$\textcircled{9} \begin{cases} -x; -3 \leq x \leq 0 \\ x; 0 \leq x \leq 1 \\ 3x-1; x > 1 \end{cases}$$