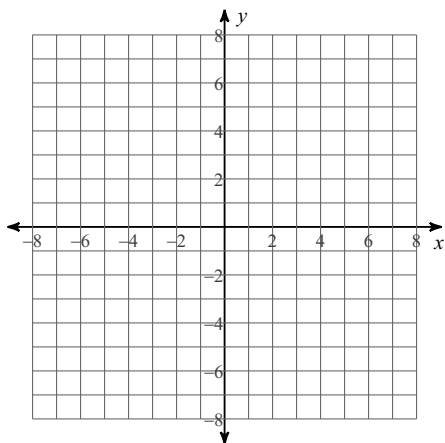


Assignment

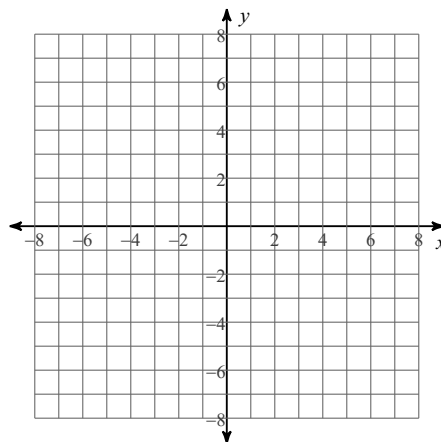
Date _____ Period _____

Sketch the graph of each function.

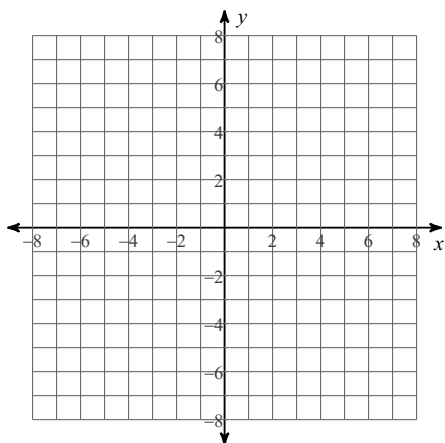
$$1) g(x) = \begin{cases} x + 3, & x < 0 \\ 2, & 0 \leq x \leq 4 \\ 4, & x > 4 \end{cases}$$



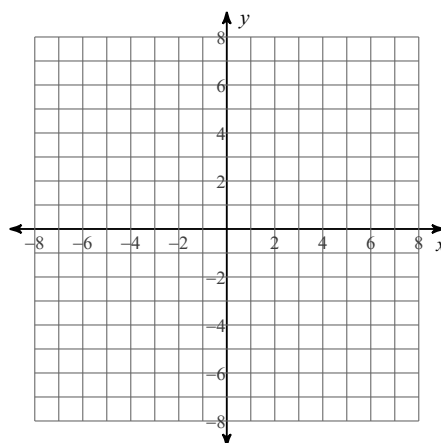
$$2) g(x) = \begin{cases} (x + 3)^2, & x < -3 \\ x^2 - 4, & -3 \leq x \leq 3 \\ 3, & x > 3 \end{cases}$$



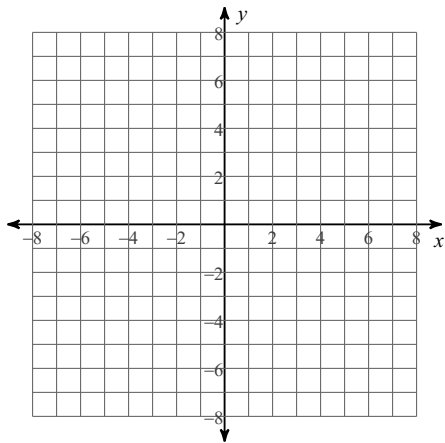
$$3) w(x) = \begin{cases} -2|x|, & x \leq 1 \\ \sqrt{x-3}, & x > 1 \end{cases}$$



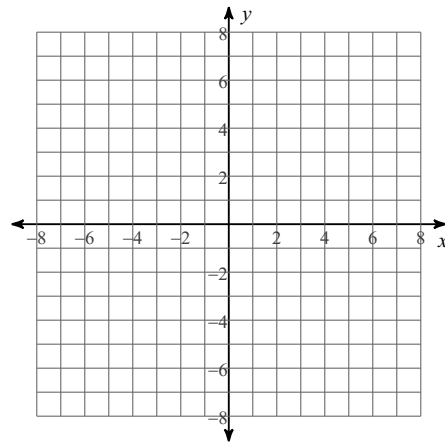
$$4) g(x) = \begin{cases} 4 - x^2, & x \leq 0 \\ -|x|, & x > 0 \end{cases}$$



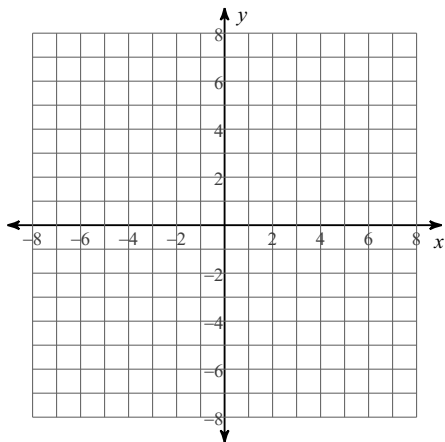
$$5) f(x) = \begin{cases} (x+2)^3, & x \leq -1 \\ 2^x - 3, & -1 < x \leq 3 \\ 1, & x > 3 \end{cases}$$



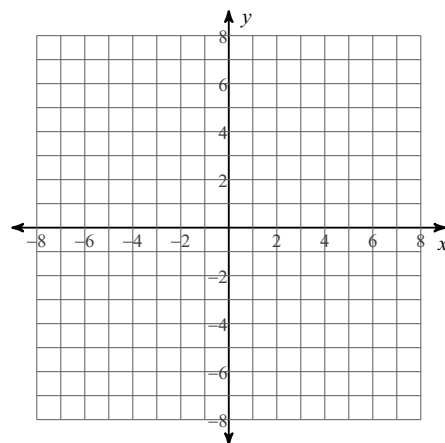
$$6) g(x) = \begin{cases} (x+4)^2, & x < -3 \\ \sqrt{-3x}, & -3 \leq x \leq 2 \\ (x-3)^2, & x > 2 \end{cases}$$



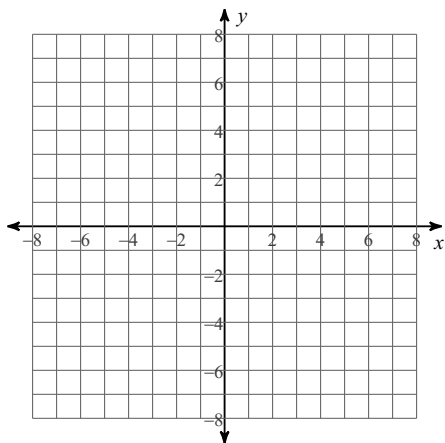
$$7) w(x) = \begin{cases} -6, & x < 0 \\ 2x - 4, & 0 \leq x \leq 4 \\ -5, & x > 4 \end{cases}$$



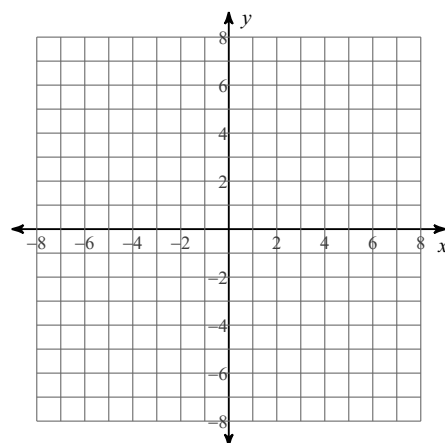
$$8) f(x) = \begin{cases} -2x + 2, & x \leq 4 \\ \sqrt{x-3}, & x > 4 \end{cases}$$



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



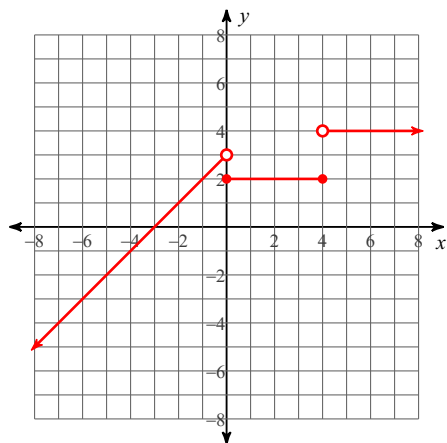
$$10) f(x) = \begin{cases} (x+5)^2, & x \leq -4 \\ -x - 1, & -4 < x \leq 1 \\ -1 + \sqrt{x}, & x > 1 \end{cases}$$



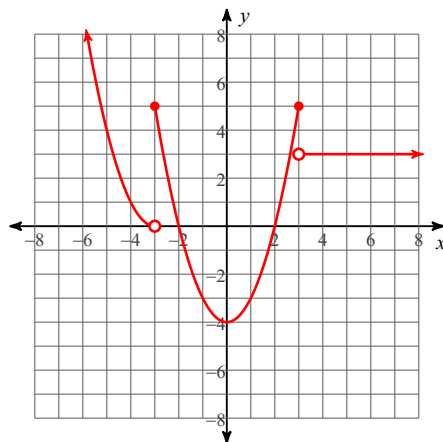
Assignment

Sketch the graph of each function.

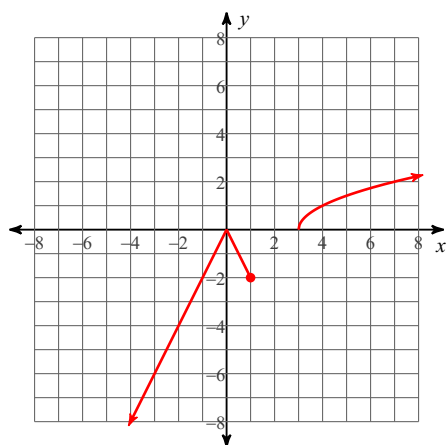
$$1) g(x) = \begin{cases} x + 3, & x < 0 \\ 2, & 0 \leq x \leq 4 \\ 4, & x > 4 \end{cases}$$



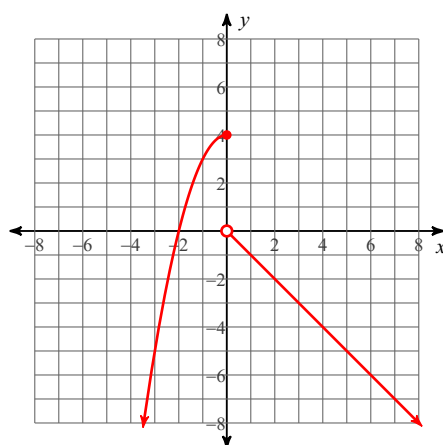
$$2) g(x) = \begin{cases} (x + 3)^2, & x < -3 \\ x^2 - 4, & -3 \leq x \leq 3 \\ 3, & x > 3 \end{cases}$$



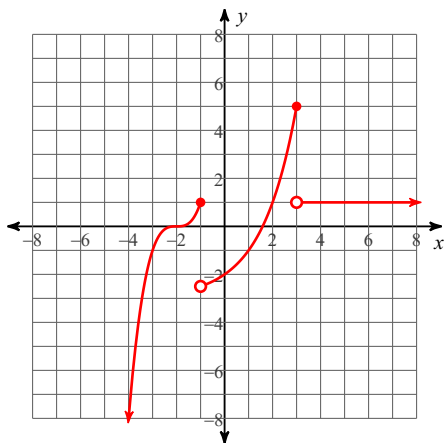
$$3) w(x) = \begin{cases} -2|x|, & x \leq 1 \\ \sqrt{x-3}, & x > 1 \end{cases}$$



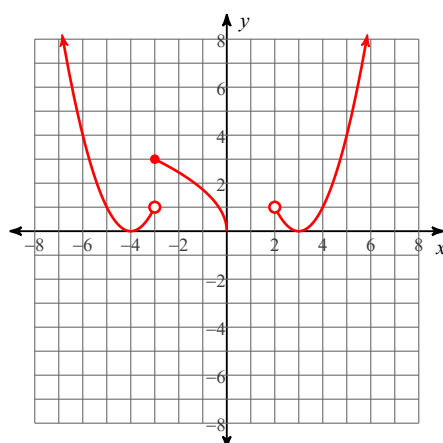
$$4) g(x) = \begin{cases} 4 - x^2, & x \leq 0 \\ -|x|, & x > 0 \end{cases}$$



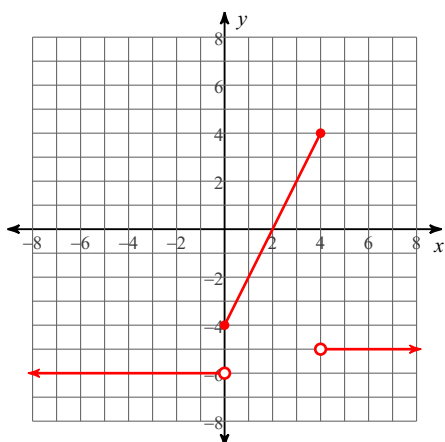
$$5) f(x) = \begin{cases} (x+2)^3, & x \leq -1 \\ 2^x - 3, & -1 < x \leq 3 \\ 1, & x > 3 \end{cases}$$



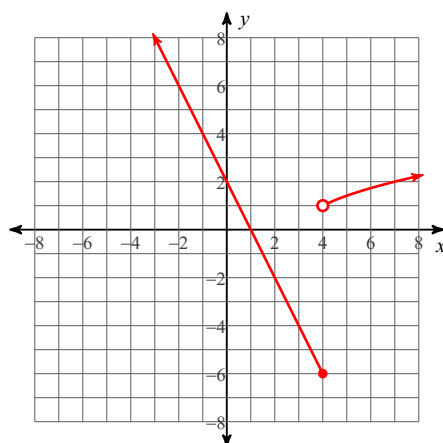
$$6) g(x) = \begin{cases} (x+4)^2, & x < -3 \\ \sqrt{-3x}, & -3 \leq x \leq 2 \\ (x-3)^2, & x > 2 \end{cases}$$



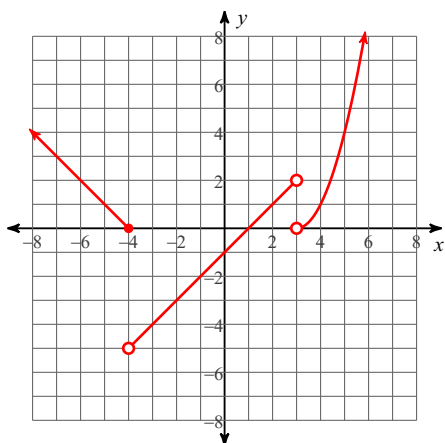
$$7) w(x) = \begin{cases} -6, & x < 0 \\ 2x - 4, & 0 \leq x \leq 4 \\ -5, & x > 4 \end{cases}$$



$$8) f(x) = \begin{cases} -2x + 2, & x \leq 4 \\ \sqrt{x-3}, & x > 4 \end{cases}$$



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



$$10) f(x) = \begin{cases} (x+5)^2, & x \leq -4 \\ -x - 1, & -4 < x \leq 1 \\ -1 + \sqrt{x}, & x > 1 \end{cases}$$

