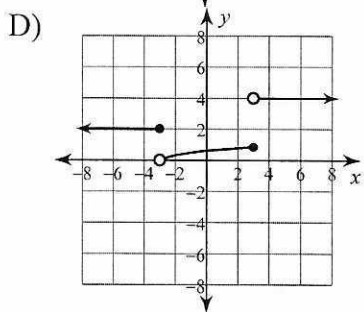
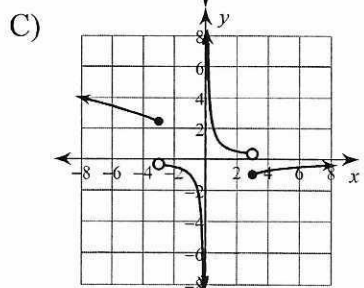
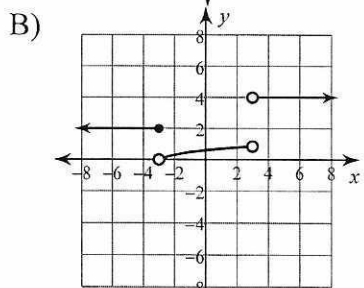
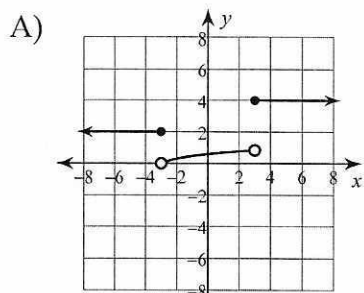


PIECEWISE FUNCTION PRACTICE

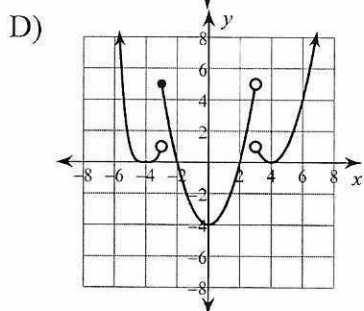
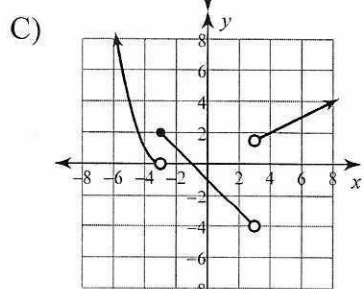
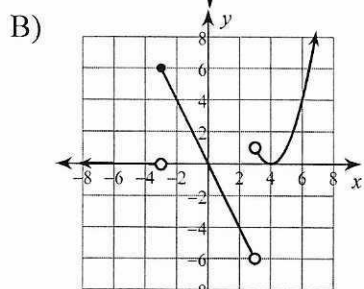
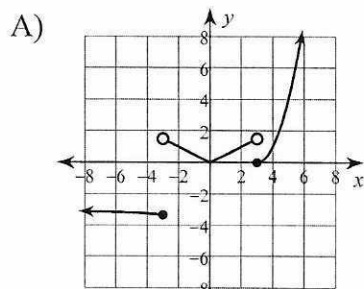
Date _____ Period _____

Sketch the graph of each function.

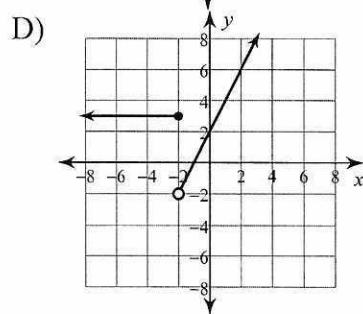
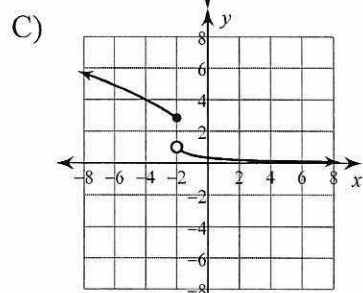
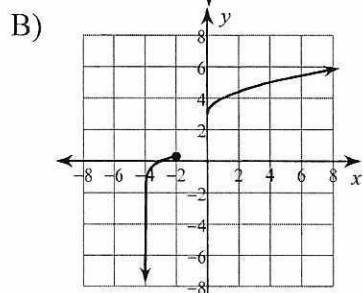
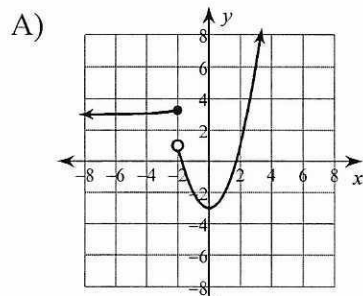
$$1) f(x) = \begin{cases} 2, & x \leq -3 \\ \log(x+4), & -3 < x \leq 3 \\ 4, & x > 3 \end{cases}$$



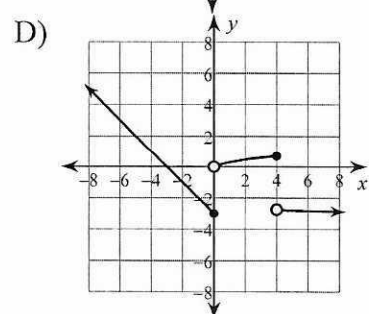
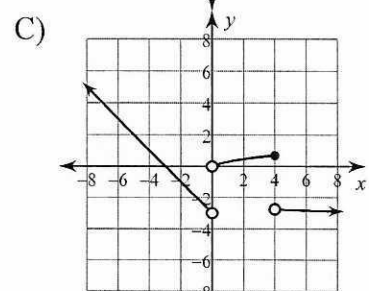
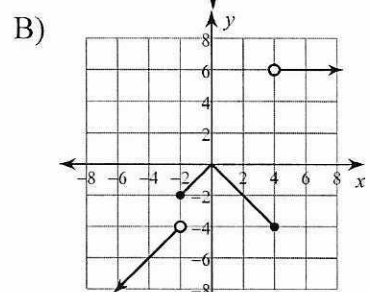
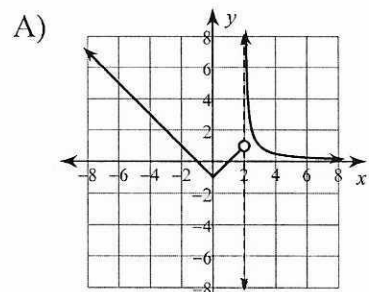
$$2) g(x) = \begin{cases} \frac{1}{x} - 3, & x \leq -3 \\ \frac{|x|}{2}, & -3 < x < 3 \\ (x-3)^2, & x \geq 3 \end{cases}$$



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

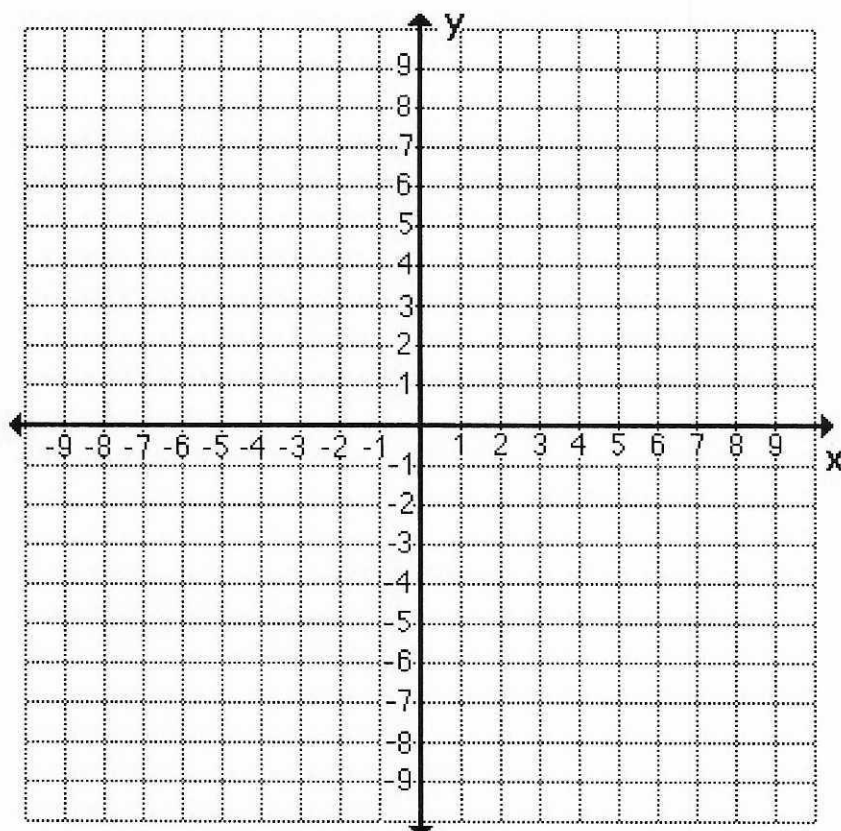


$$4) g(x) = \begin{cases} -x - 3, & x \leq 0 \\ \log(x+1), & 0 < x \leq 4 \\ \frac{1}{x} - 3, & x > 4 \end{cases}$$



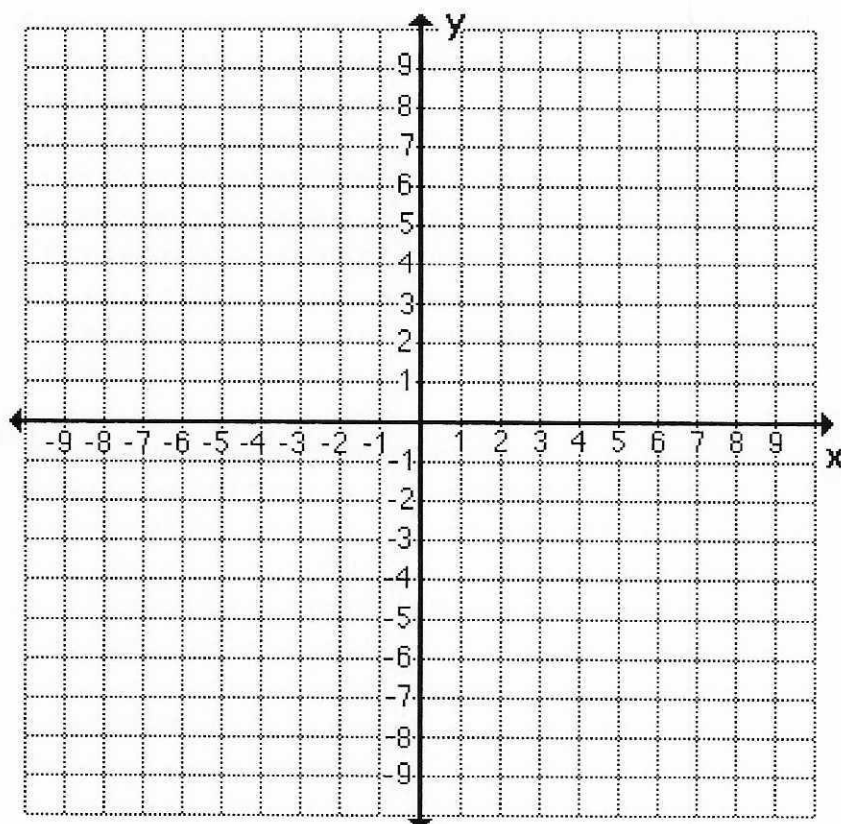
5.

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



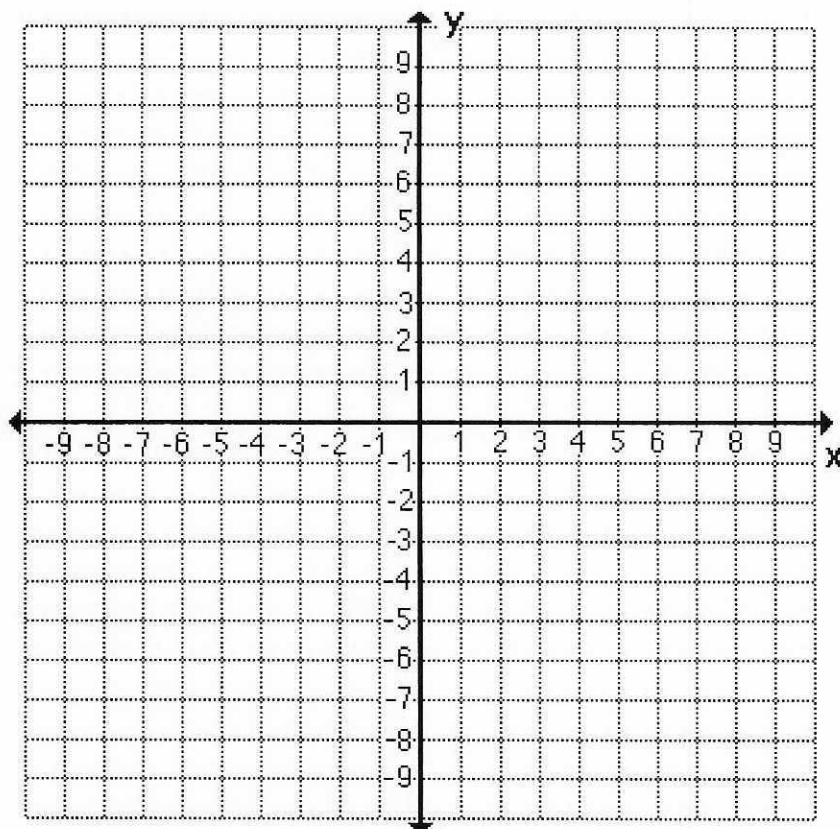
6.

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



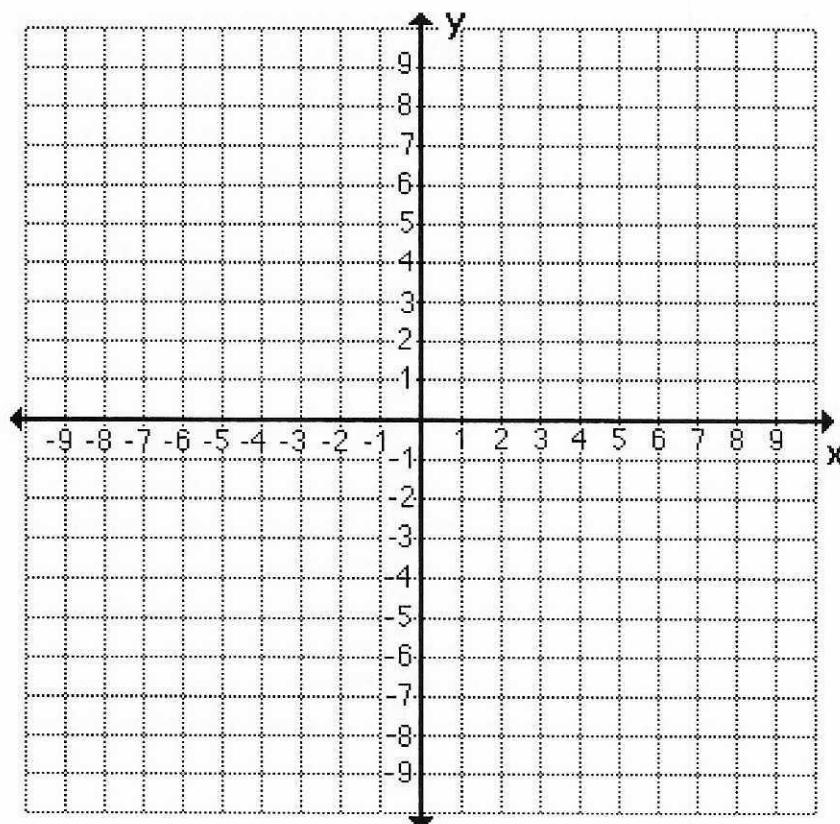
7.

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



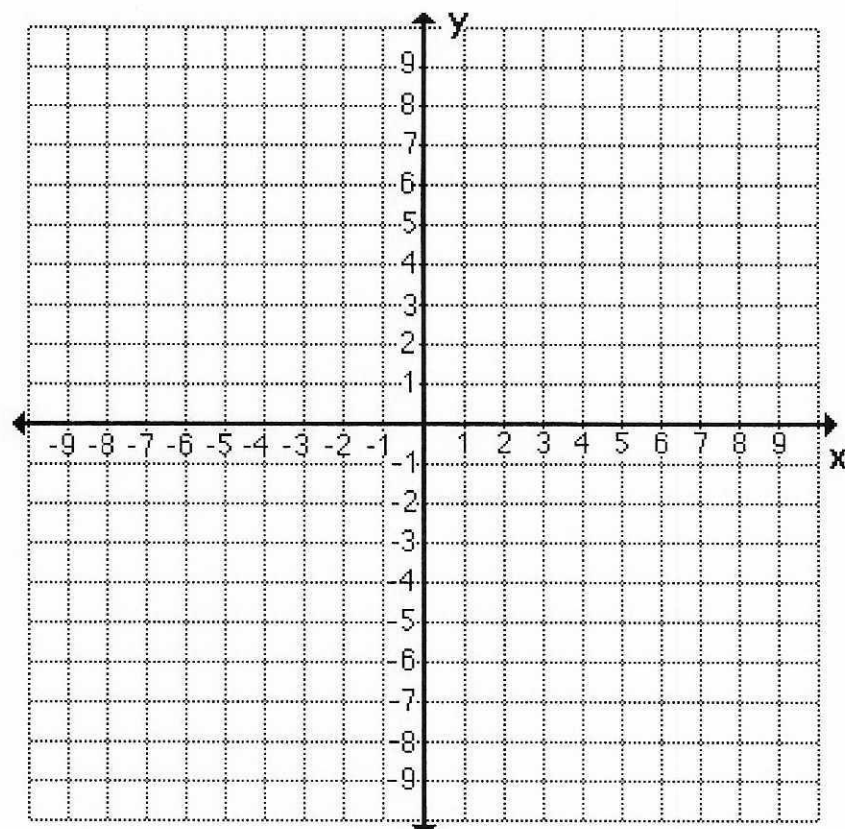
8.

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



9.

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



10.

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

