

Name _____

8A; Algebra 1

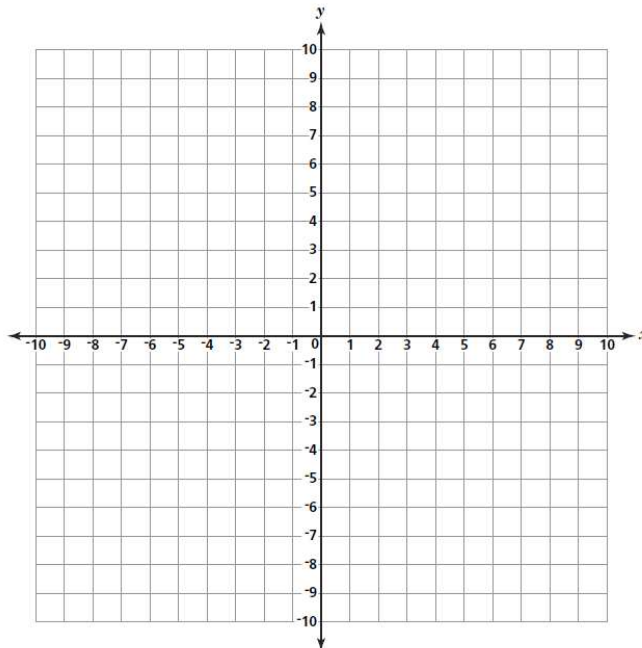
Date _____

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Piecewise Functions

#1-4 Graph the piecewise functions. List the Domain and the Range of the function.

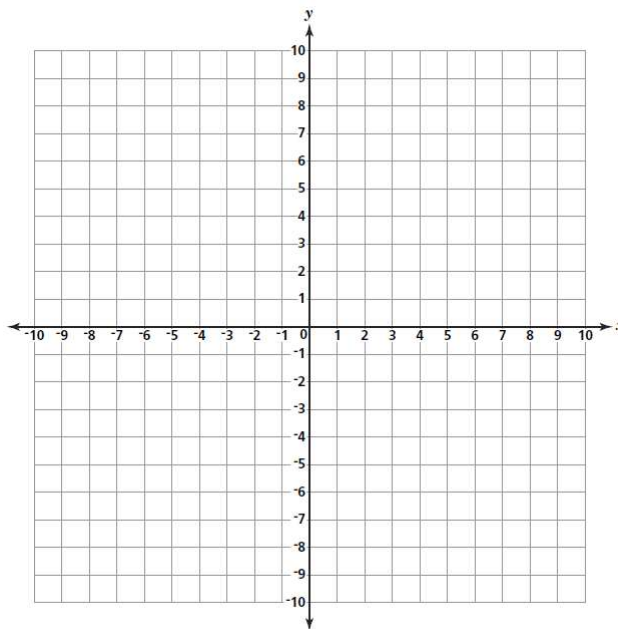
$$1) f(x) = \begin{cases} x^2 + 4, & x < 0 \\ \sqrt{x} + 4, & x \geq 0 \end{cases}$$



Domain: _____

Range: _____

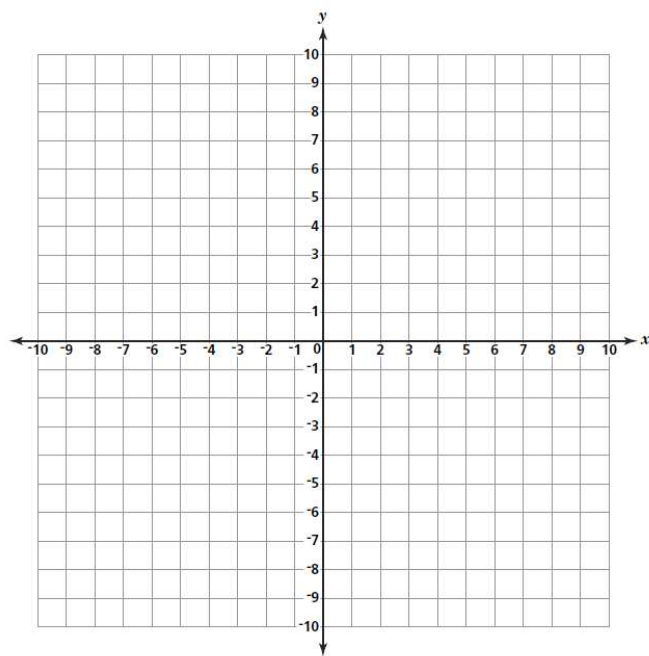
$$2) f(x) = \begin{cases} |x| - 1, & x > -1 \\ x + 3, & x \leq -1 \end{cases}$$



Domain: _____

Range: _____

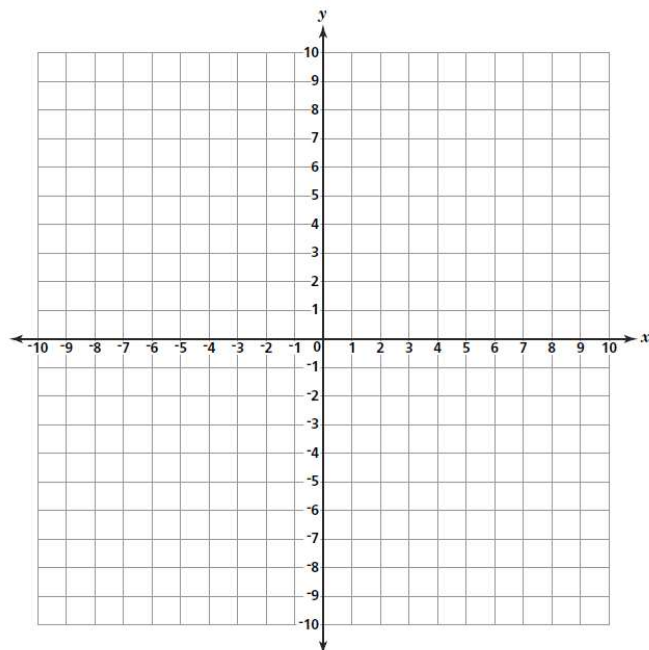
$$3) f(x) = \begin{cases} -x + 1, & x < -4 \\ 2^x, & x \geq 0 \end{cases}$$



Domain: _____

Range: _____

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



Domain: _____

Range: _____