

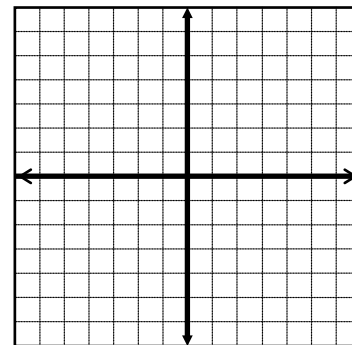
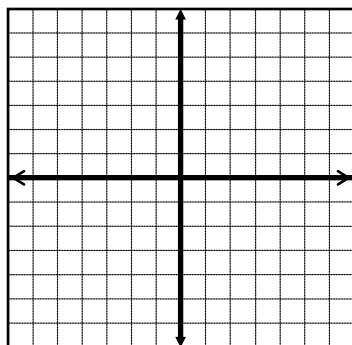
NAME _____ DATE _____ PER _____ SCORE _____

Rational and Piecewise Functions

Graphing Rational Functions (2.6): Graph.

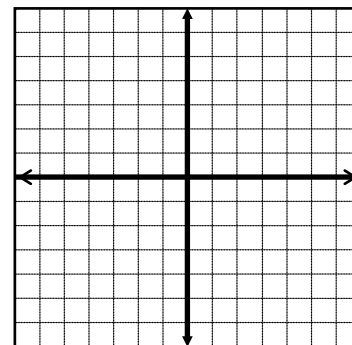
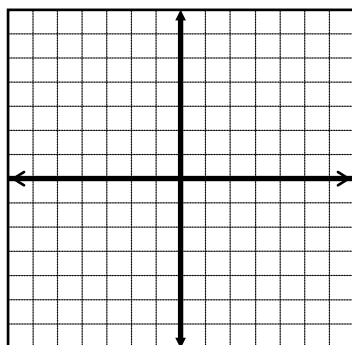
1. $f(x) = \frac{x^2 - 2x - 3}{x^2 - 4}$

2. $f(x) = \frac{x^2 - 1}{x^2 - x - 6}$



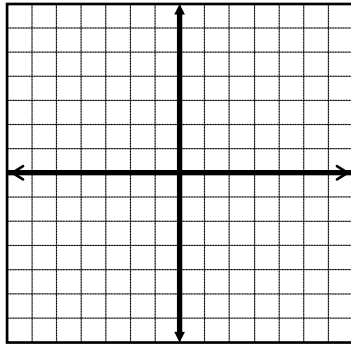
3. $f(x) = \frac{x+3}{x^2 - 4x + 4}$

4. $f(x) = \frac{2x^2 - x - 6}{x - 1}$

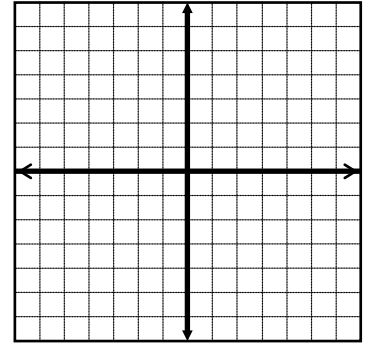


Graphing Piecewise Functions (2.6): Graph.

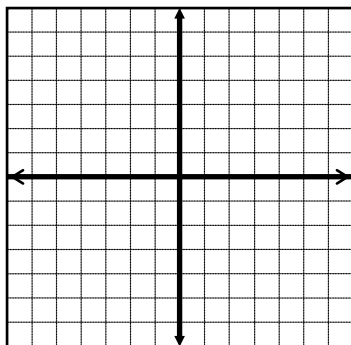
$$5. f(x) = \begin{cases} 2x+3, & \text{if } x < -1 \\ -x^2, & \text{if } x \geq -1 \end{cases}$$



$$6. f(x) = \begin{cases} |x+1|, & \text{if } x \leq 0 \\ x^2 - 2, & \text{if } x > 0 \end{cases}$$



$$7. f(x) = \begin{cases} \frac{1}{2}x+3, & \text{if } x < -2 \\ 2x+1, & \text{if } -2 \leq x \leq 1 \\ (x-2)^2, & \text{if } x > 1 \end{cases}$$



$$8. f(x) = \begin{cases} -3, & \text{if } -3 < x \leq -1 \\ -1, & \text{if } -1 < x \leq 1 \\ 2, & \text{if } 1 < x \leq 3 \\ 4, & \text{if } 3 < x \leq 5 \end{cases}$$

