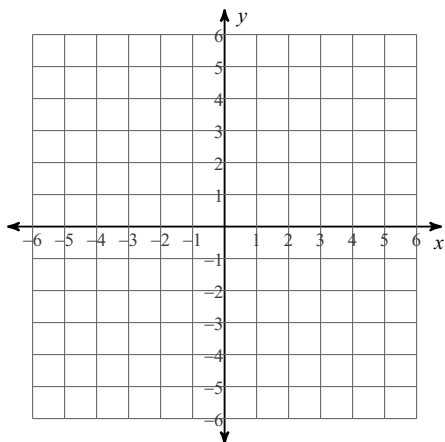


## Rational Functions Day 2 Homework

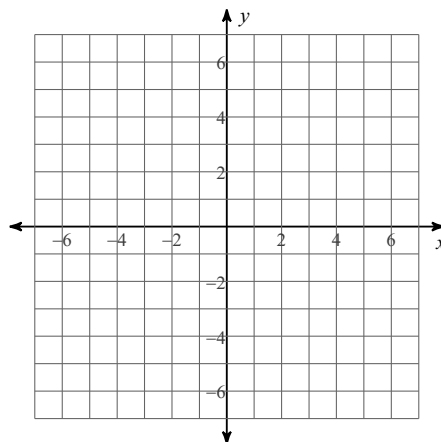
Date \_\_\_\_\_ Period \_\_\_\_\_

**Identify the holes, asymptotes, and intercepts of each. Then sketch the graph.**

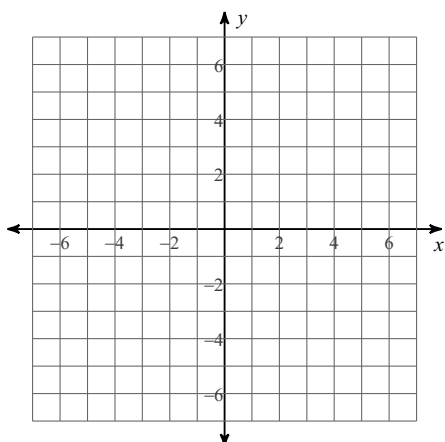
1)  $y = \frac{2}{2x^2 - x - 3}$



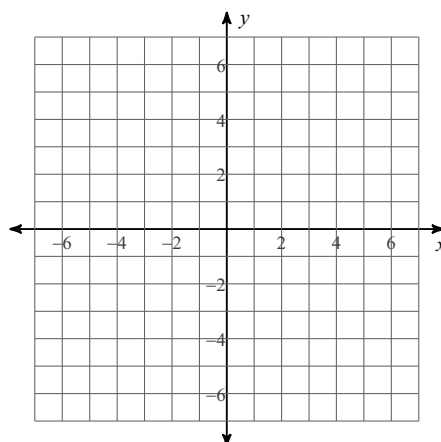
2)  $y = \frac{x - 1}{x^2 - x - 12}$



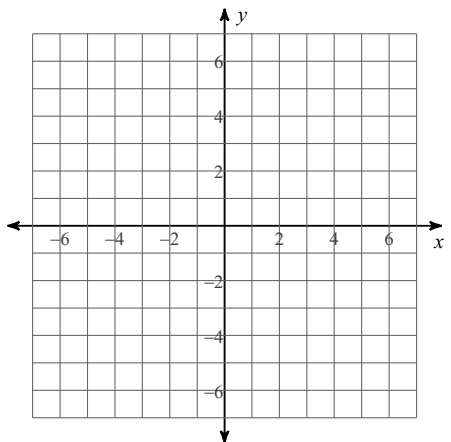
3)  $y = \frac{x^2 - x - 2}{x^2 - 2x - 8}$



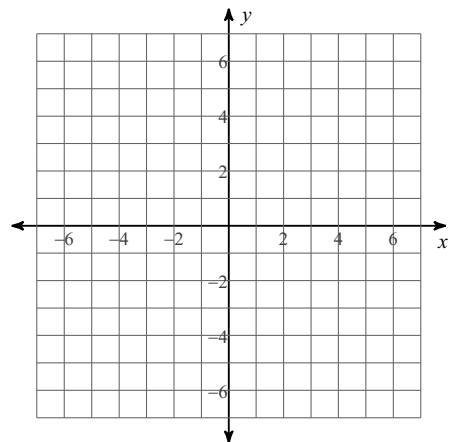
4)  $y = \frac{-2x^2 - 2x + 24}{x^2 - 9}$



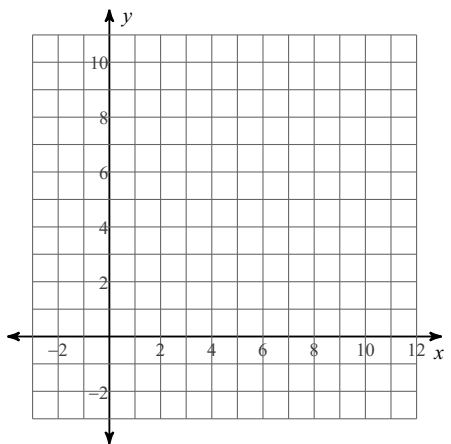
$$5) y = \frac{3x + 12}{2x^2 + 7x - 4}$$



$$6) y = \frac{x^2 + 2x - 3}{x + 2}$$



$$7) y = \frac{x^2 - x - 2}{x - 3}$$



$$8) y = \frac{-x^2 - 1}{x - 1}$$

