

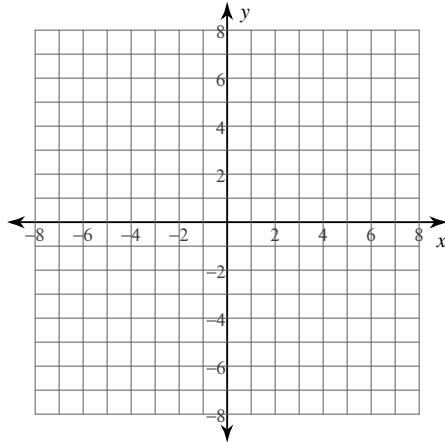
**4.4: Graphing Rational Functions Practice**

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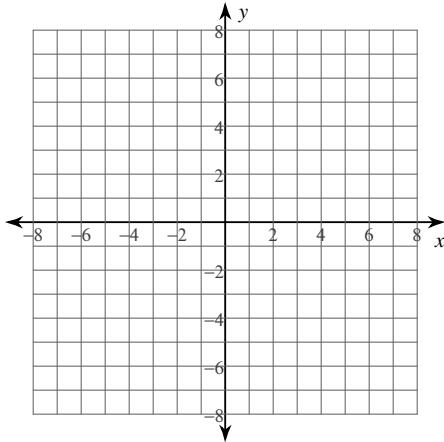
Date\_\_\_\_\_ Period\_\_\_\_

**Identify the holes, vertical asymptotes, x-intercepts, horizontal asymptote, and domain of each. Then sketch the graph.**

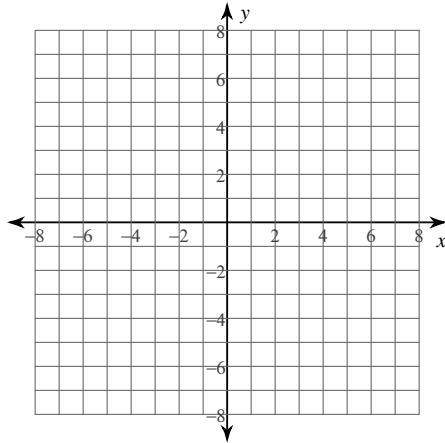
1)  $f(x) = \frac{4}{x - 3}$



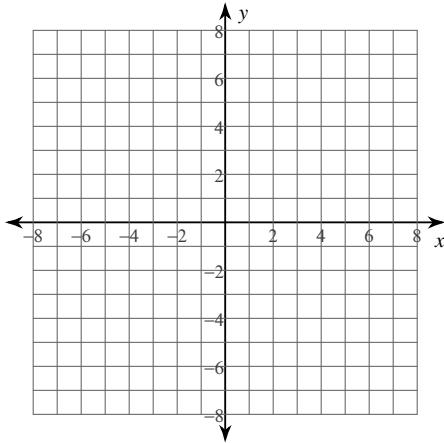
2)  $f(x) = \frac{x^2 + 7x + 12}{-2x^2 - 2x + 12}$



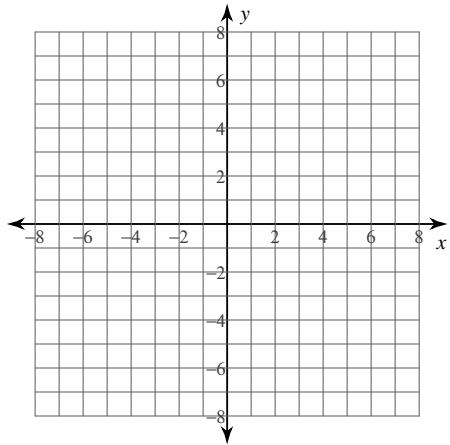
3)  $f(x) = \frac{1}{-x + 4}$



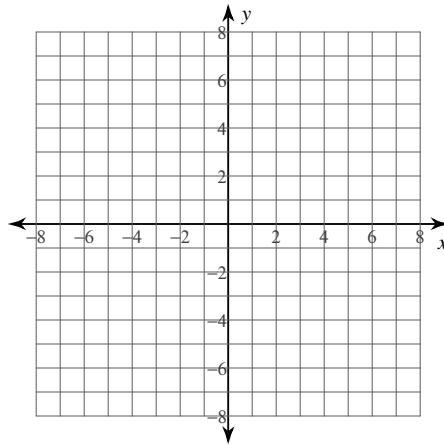
4)  $f(x) = \frac{-3x + 12}{x^2 - 3x - 4}$



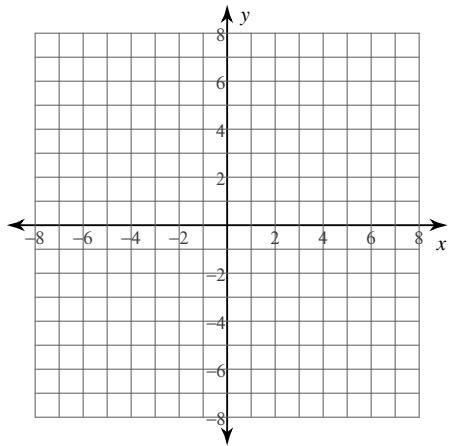
$$5) \ f(x) = \frac{-2x^2 + 4x + 16}{x^2 - 5x + 4}$$



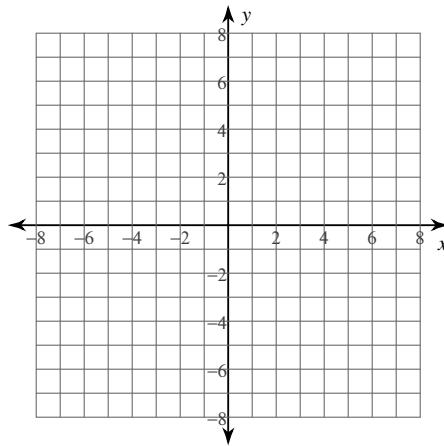
$$6) \ f(x) = \frac{x^2 - 3x}{2x^2 + 2x - 12}$$



$$7) \ f(x) = \frac{3x + 6}{x + 3}$$

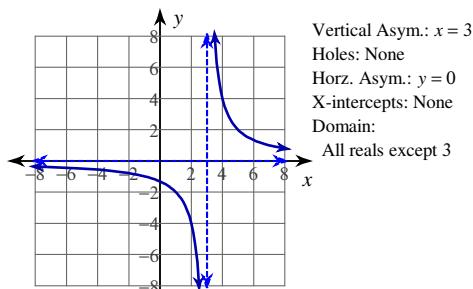


$$8) \ f(x) = \frac{x^2 + 5x + 4}{x^2 - 1}$$

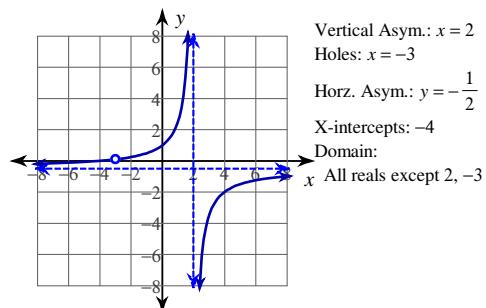


# Answers to 4.4: Graphing Rational Functions Practice (ID: 1)

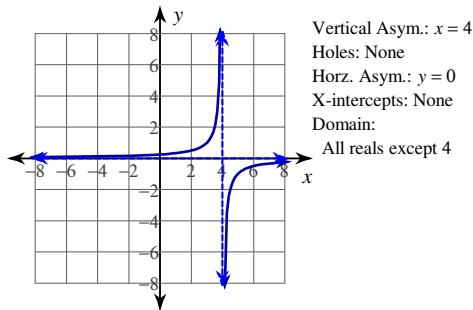
1)



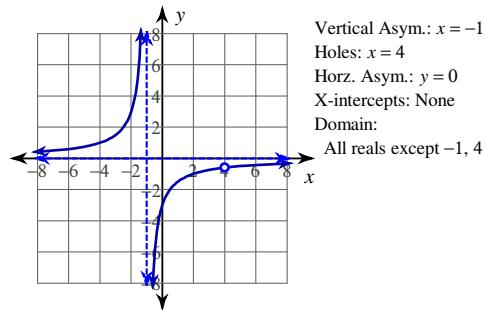
2)



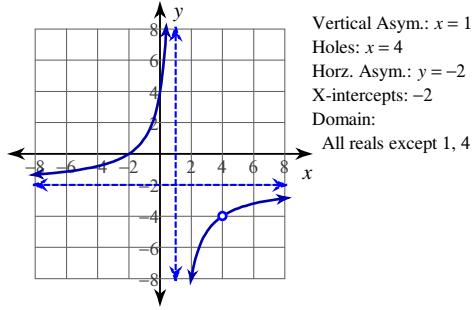
3)



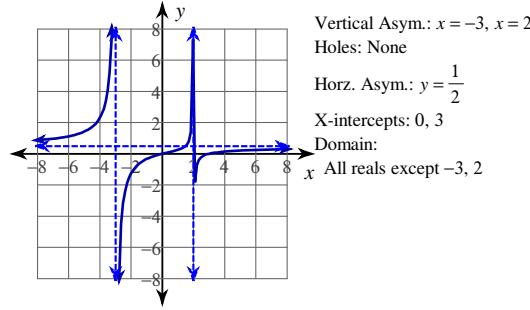
4)



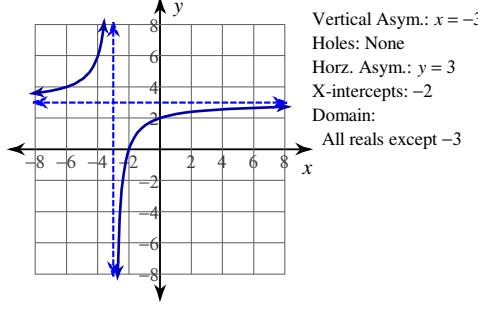
5)



6)



7)



8)

