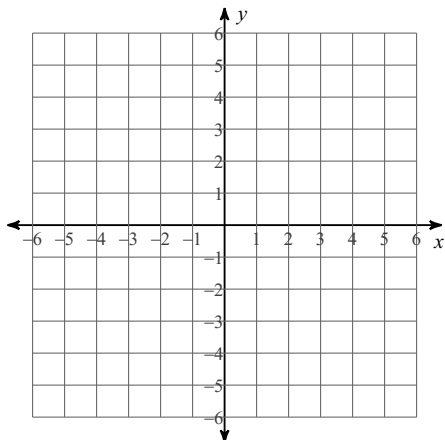


Rational Functions Review

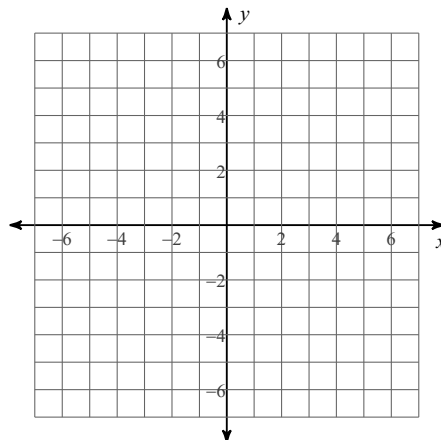
Date _____ Period _____

CLASS EXAMPLES: Identify the holes, asymptotes, and intercepts of each. Then sketch the graph.

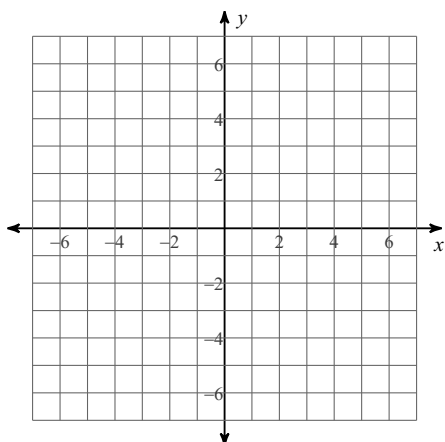
$$1) y = \frac{3x - 3}{x^2 + x - 6}$$



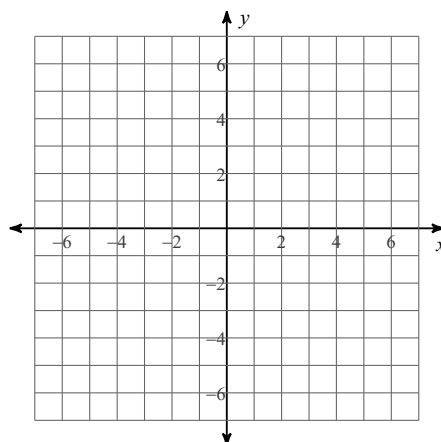
$$2) y = \frac{x^2 - 4}{-2x^2 + 6x + 8}$$



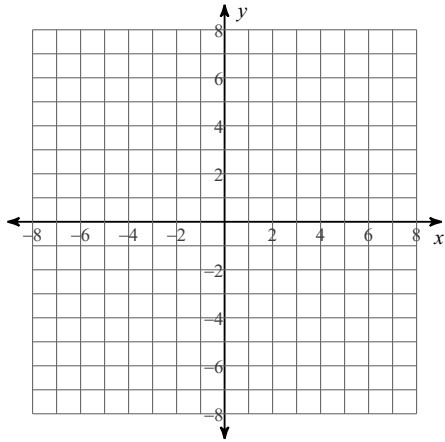
$$3) y = \frac{4}{x^2 + 2x - 3}$$



$$4) y = \frac{-2x^2 - 4x + 6}{x^2 + x - 2}$$

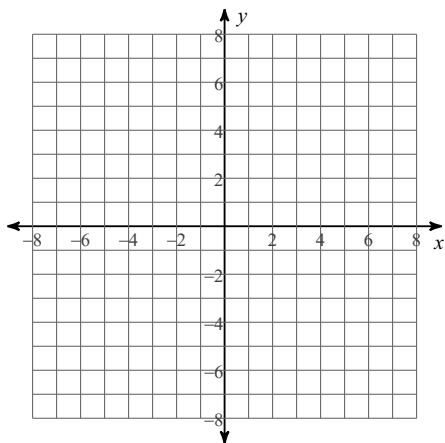


$$5) y = \frac{x^2 - x - 6}{x + 1}$$

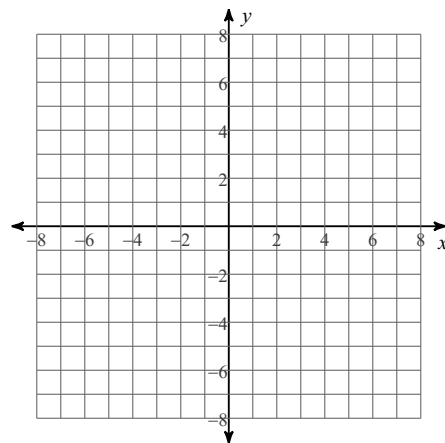


HOMEWORK: Identify the holes, asymptotes, and intercepts of each. Then sketch the graph.

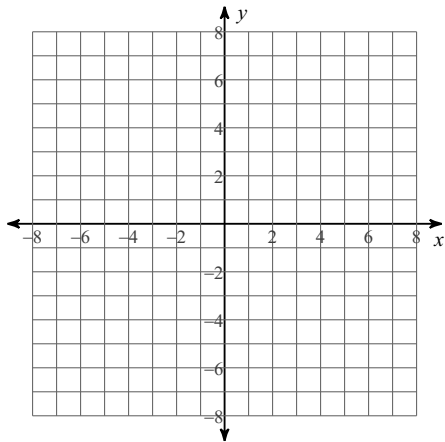
$$6) f(x) = \frac{4}{x^2 + x - 2}$$



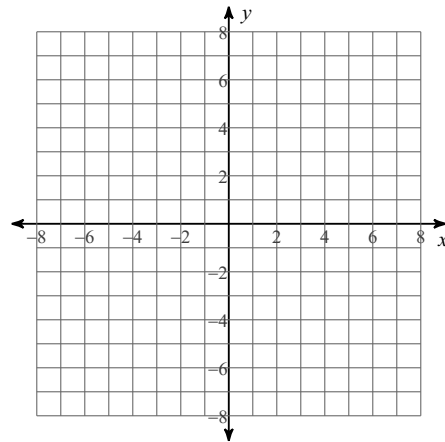
$$7) f(x) = \frac{-2x^2 - 10x - 8}{x^2 + x - 6}$$



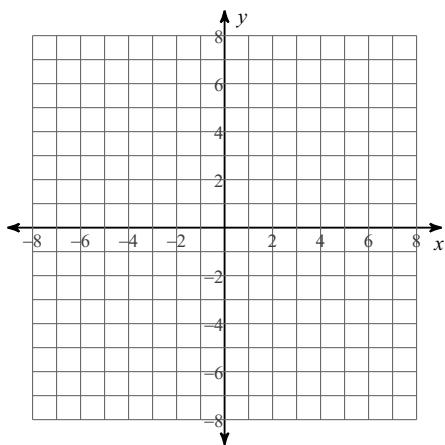
$$8) f(x) = \frac{-3x + 9}{x^2 - 4x + 3}$$



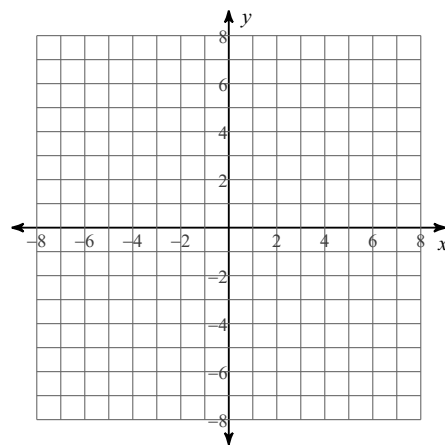
$$9) f(x) = \frac{-x^2 + x + 2}{x^2 + x - 6}$$



$$10) f(x) = \frac{x^2 - 2x - 3}{x^2 - 9}$$

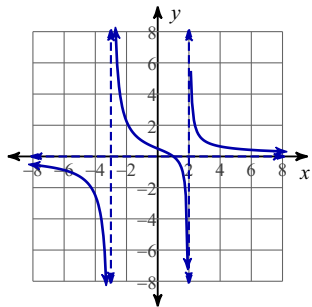


$$11) y = \frac{x^2 - 3x + 3}{x - 1}$$

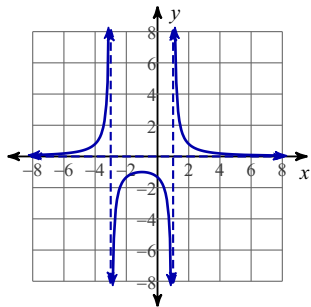


Answers to Rational Functions Review (ID: 1)

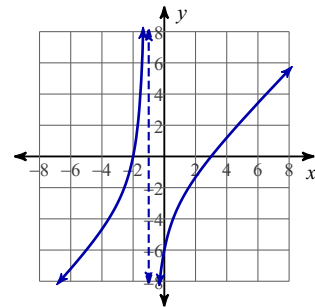
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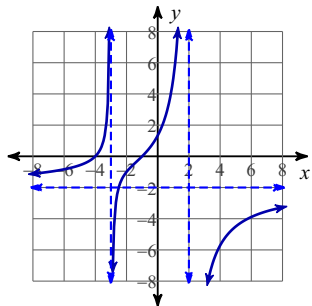
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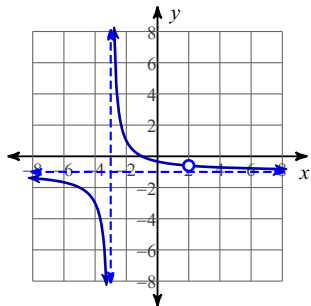
5)



7)



9)



11)

