

Graphing Rational Functions

Date _____ Period _____

Identify the points of discontinuity, holes, vertical asymptotes, x-intercepts, and horizontal asymptote of each.

$$1) f(x) = \frac{1}{3x^2 + 3x - 18}$$

Discontinuities: -3, 2
Vertical Asym.: $x = -3$, $x = 2$
Holes: None
Horz. Asym.: $y = 0$
X-intercepts: None

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

Discontinuities: 4
Vertical Asym.: $x = 4$
Holes: None
Horz. Asym.: $y = 1$
X-intercepts: 2

$$3) f(x) = \frac{x^3 - x^2 - 6x}{-3x^2 - 3x + 18}$$

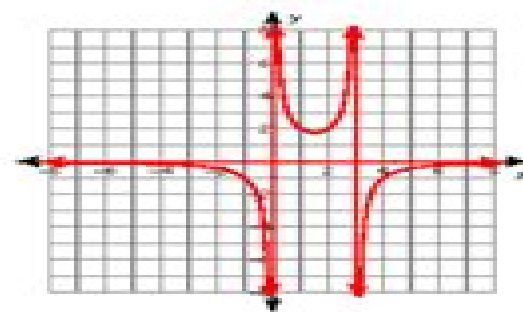
Discontinuities: 2, -3
Vertical Asym.: $x = 2$, $x = -3$
Holes: None
Horz. Asym.: None
X-intercepts: 0, -2, 3

$$4) f(x) = \frac{x^2 + x - 6}{-4x^2 - 16x - 12}$$

Discontinuities: -1, -3
Vertical Asym.: $x = -1$
Holes: $x = -3$
Horz. Asym.: $y = -\frac{1}{4}$
X-intercepts: 2

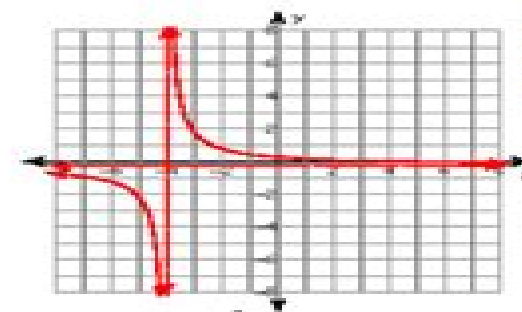
Identify the points of discontinuity, holes, vertical asymptotes, and horizontal asymptote of each. Then sketch the graph.

$$5) f(x) = -\frac{4}{x^2 - 3x}$$



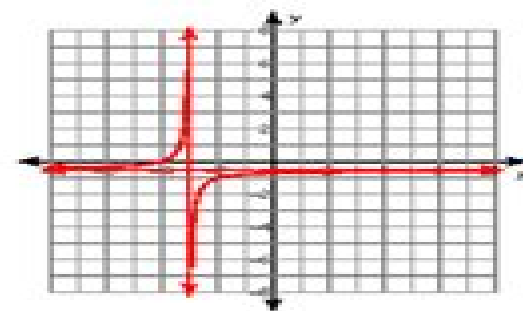
Discontinuities: 0, 3
Vertical Asym.: $x = 0$, $x = 3$
Holes: None
Horz. Asym.: $y = 0$

$$6) f(x) = \frac{x-4}{-4x-16}$$



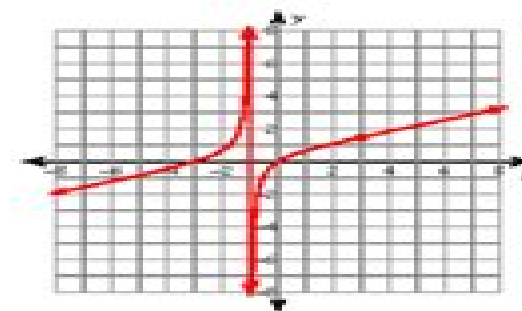
Discontinuities: -4
Vertical Asym.: $x = -4$
Holes: None
Horz. Asym.: $y = -\frac{1}{4}$

$$7) f(x) = \frac{x+4}{-2x-6}$$



Discontinuities: -3
Vertical Asym.: $x = -3$
Holes: None
Horz. Asym.: $y = -\frac{1}{2}$

$$8) f(x) = \frac{x^2 - 9x}{3x^2 - 6x - 9}$$



Discontinuities: -1, 3
Vertical Asym.: $x = -1$
Holes: $x = 3$
Horz. Asym.: $y = \frac{1}{3}$

Algebra 2 Rational Functions Answer Key

JoAnne Thomasson, Bob Pesut



Algebra 2 Rational Functions Answer Key:

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