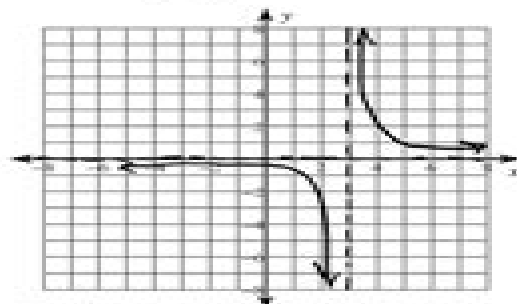


4.4: Graphing Rational Functions Practice

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

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



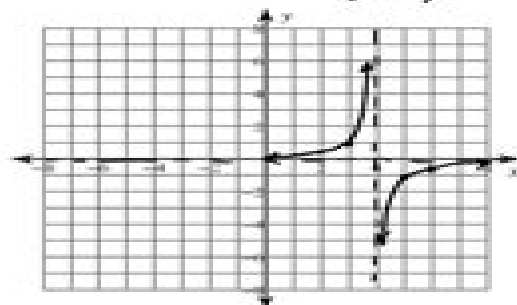
$$2) f(x) = \frac{x^2 + 7x + 12}{-2x^2 - 2x + 12}$$

$$\frac{(x+3)(x+4)}{-2(x^2 + x - 6)} \quad \frac{(x+3)(x+4)}{-2(x+3)(x-2)}$$

1 hole at $(-3, 1/10)$
 VA: $x = 2$

x	y
1	20/9
3	

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



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

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

1 hole at $(4, -3/5)$
 VA: $x = -1$
 No x-int
 y-int: $(0, -3)$

x	y
1	-3/2
2	6/-5 = -1.2
-2	18/5 = 3.6
-3	24/11

Applications Of Rational Functions Algebra 2

**Chris Christensen, Ganesh
Sundaram, Avinash Sathaye, Chandrajit
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