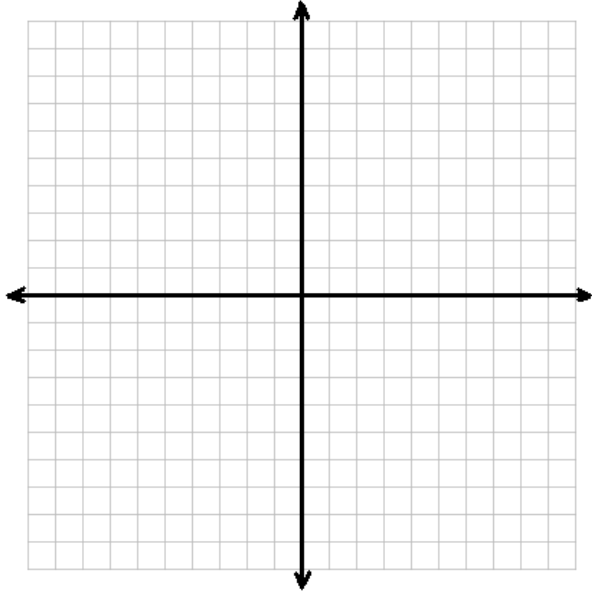


Directions: Analyze and Graph each Rational Function

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

Domain:		Discontinuities:	
x-intercepts	y-intercepts	Vertical Asymptotes:	Holes (including y-value):
End Behavior Asymptote (DOMINANCE):			

Other Key points: (make table) –Use if necessary

$$f(x) = \frac{x^2 - 2x - 3}{x^2 - 5x + 6}$$

Domain:

Discontinuities:

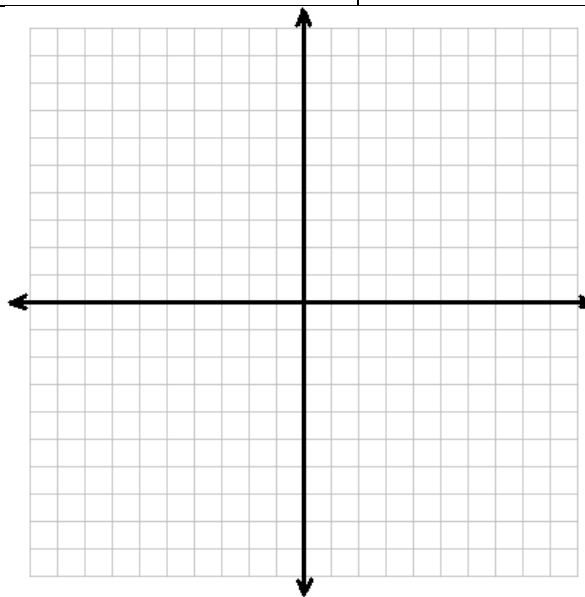
x-intercepts

y-intercepts

Vertical Asymptotes:

Holes (including y-value):

End Behavior Asymptote (DOMINANCE):



Other Key points: (make table) –Use if necessary

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

Domain:

Discontinuities:

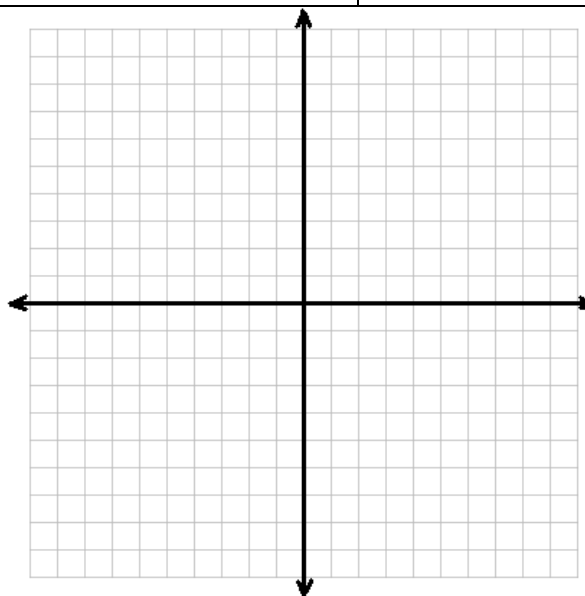
x-intercepts

y-intercepts

Vertical Asymptotes:

Holes (including y-value):

End Behavior Asymptote (DOMINANCE):



Other Key points: (make table) –Use if necessary

Write a rational function that has a horizontal asymptote of $y = 3$, vertical asymptotes of $x = -2$ and $x = 5$, and a hole at $x = 1$. (There are many correct answers) Simplify your final answer.