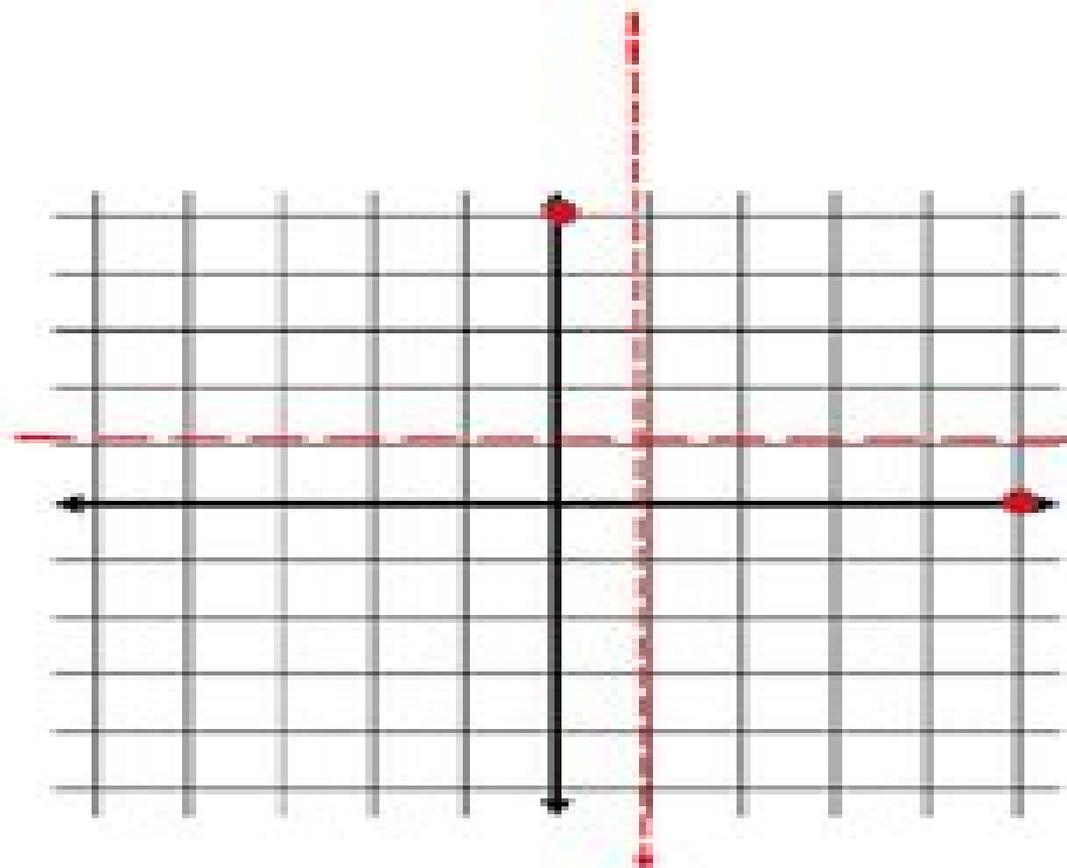


Graphing Rational Functions Practice

Directions: Simplify each function. Then answer the questions about each function and graph.

$$1. f(x) = \frac{x^2 - x - 20}{x^2 + 3x - 4} = \frac{(x+4)(x-5)}{(x+4)(x-1)} = \frac{(x-5)}{(x-1)}$$

X-axis (zeros)	$(x - 5) = 0$ $x = 5$
Y-axis (holes)	$\frac{(x-5)}{(x-1)} = \frac{(5-5)}{(5-1)} = \frac{0}{4} = 0$
Y-axis	$(x - 1) = 0$ $x = 1$
Y-axis	highest degree of numerator is the same as the highest degree of denominator. Therefore, the horizontal asymptote is $\frac{0}{1}$ or $\frac{0}{1}$ or 0.
Holes	Shows where a factor common to both the numerator and denominator is cancelled. This factor is not equal to zero and solved to find the holes. $x+4=0$ $x=-4$. (See graph on next pg.)



Graphing Rational Functions Problems

Michael Sullivan



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