

PreCalculus

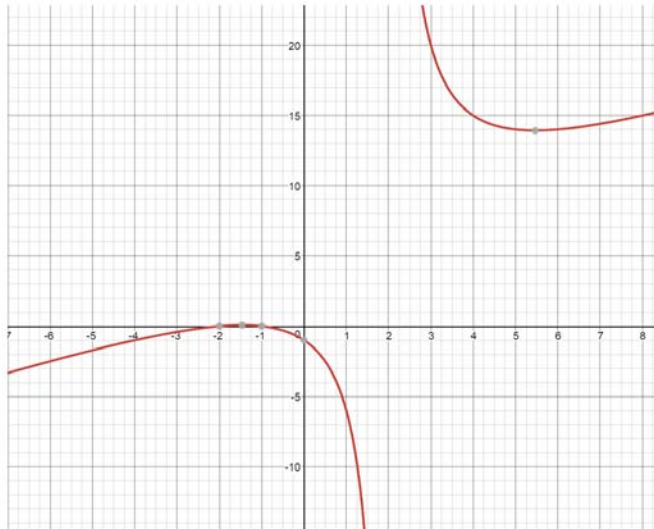
Notes: 2.7 Graphs of Rational Functions

Name _____

Date _____ Block _____

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

Find:



<i>Higher Degree N/D?</i>	
<i>Asymptotes:</i>	
<i>hole(s):</i>	
<i>Domain:</i>	
<i>Range:</i>	
<i>x-int (s):</i>	
<i>y-int:</i>	
<i>Test Points:</i>	

Characteristics of the Graph of a Rational Function

End Behavior Asymptote:

$N > D$: _____

$N = D$: _____

$N < D$: _____

Vertical Asymptotes: _____

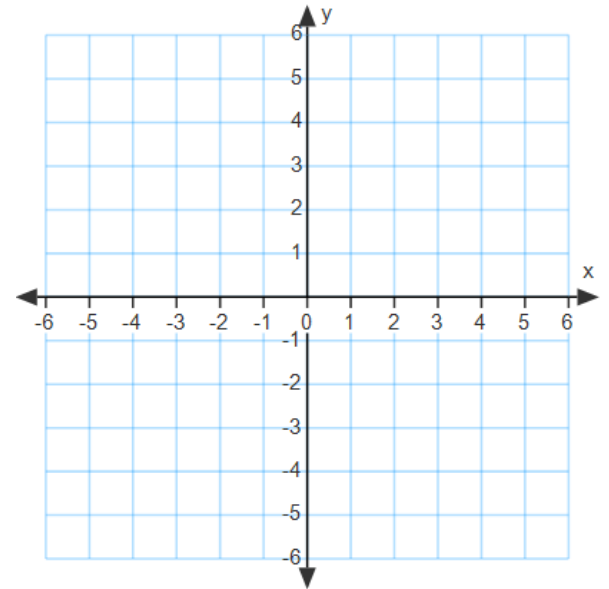
x-intercepts: _____

y-intercepts: _____

Find the following parts of the function: x -intercept, y -intercept, all asymptotes, domain, range, and hole(s), if applicable. Notice in each example if $N > D$, $N = D$ or $N < D$. Then graph the function.

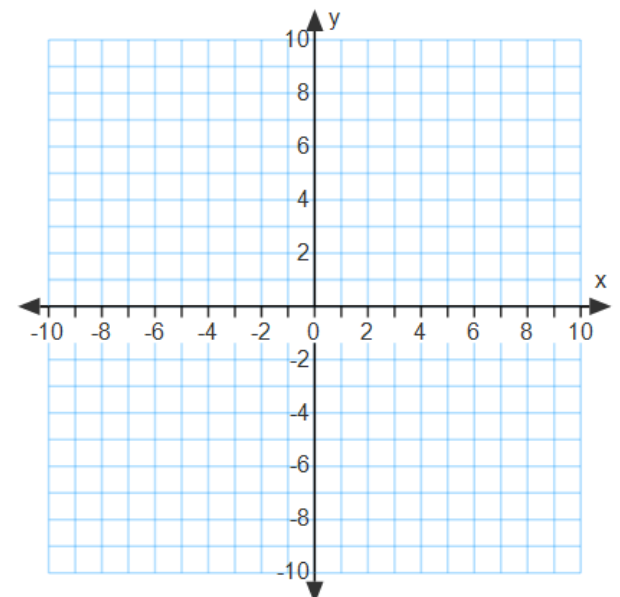
1.)

<i>Higher Degree N/D?</i>	
<i>Asymptotes:</i>	
<i>hole(s):</i>	
<i>Domain:</i>	
<i>Range:</i>	
<i>x-int (s):</i>	
<i>y-int:</i>	
<i>Test Points:</i>	



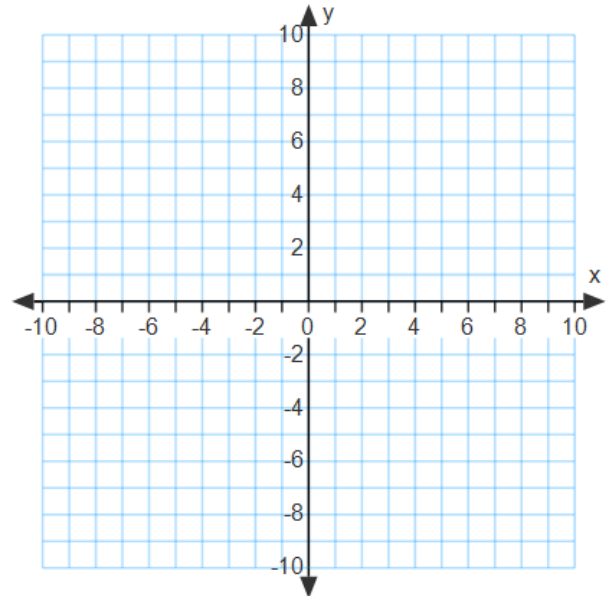
2.)

<i>Higher Degree N/D?</i>	
<i>Asymptotes:</i>	
<i>hole(s):</i>	
<i>Domain:</i>	
<i>Range:</i>	
<i>x-int (s):</i>	
<i>y-int:</i>	
<i>Test Points:</i>	



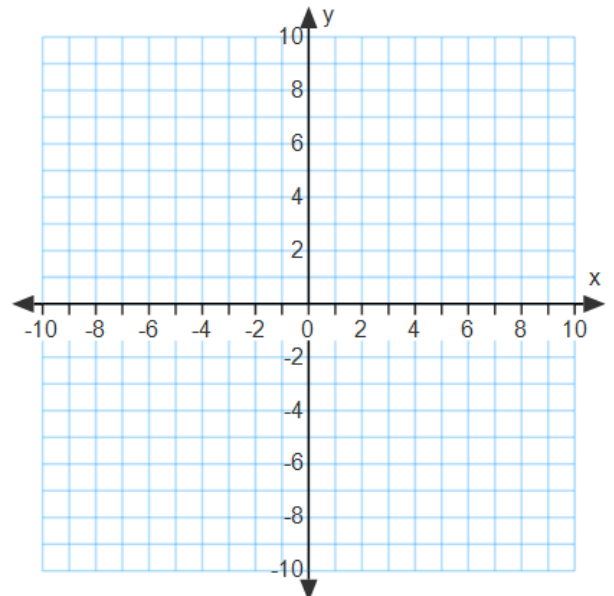
3.)

<i>Higher Degree N/D?</i>	
<i>Asymptotes:</i>	
<i>hole(s):</i>	
<i>Domain:</i>	
<i>Range:</i>	
<i>x-int (s):</i>	
<i>y-int:</i>	
<i>Test Points:</i>	



4.)

<i>Higher Degree N/D?</i>	
<i>Asymptotes:</i>	
<i>hole(s):</i>	
<i>Domain:</i>	
<i>Range:</i>	
<i>x-int (s):</i>	
<i>y-int:</i>	
<i>Test Points:</i>	



5.)

<i>Higher Degree N/D?</i>	
<i>Asymptotes:</i>	
<i>hole(s):</i>	
<i>Domain:</i>	
<i>Range:</i>	
<i>x-int (s):</i>	
<i>y-int:</i>	
<i>Test Points:</i>	

