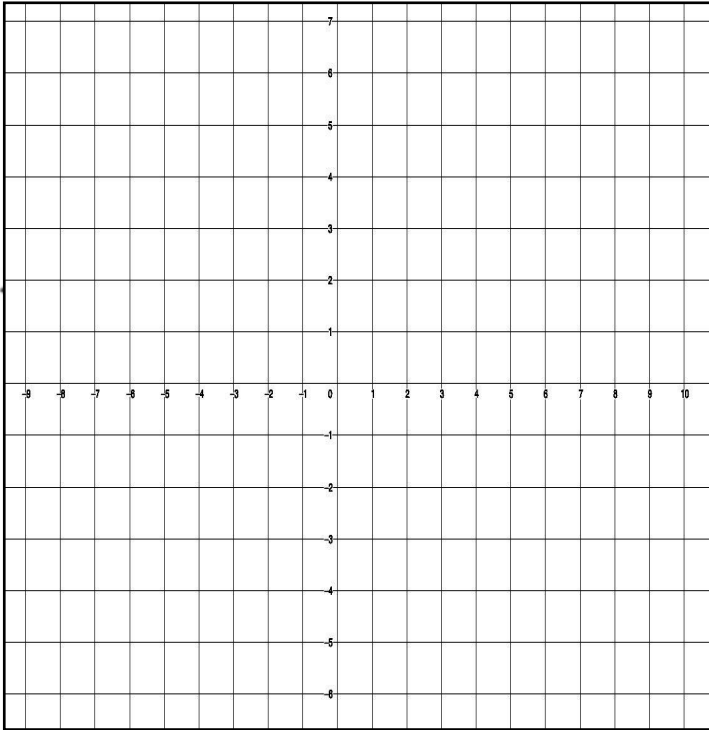


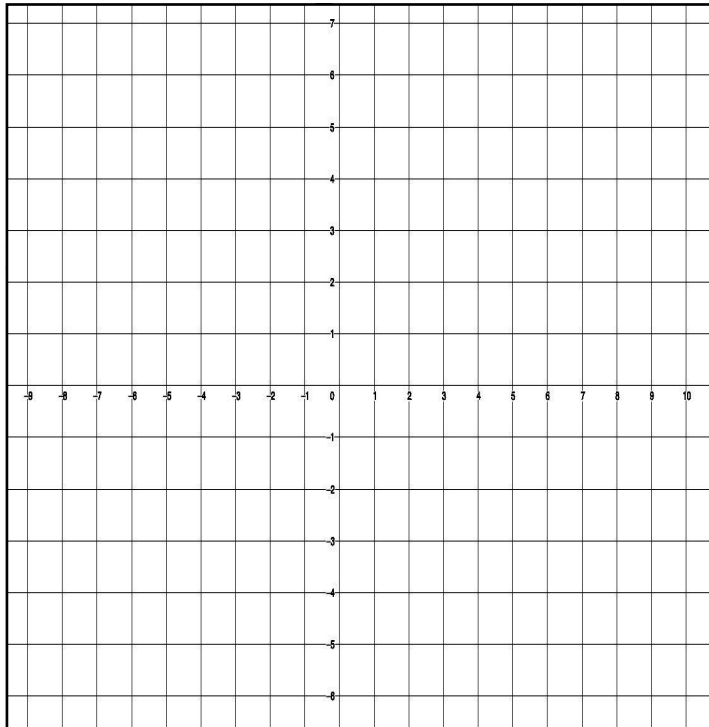
## Graphing Rational Functions Part 1 - Transformations

$$f(x) = \frac{1}{x-5} - 3$$



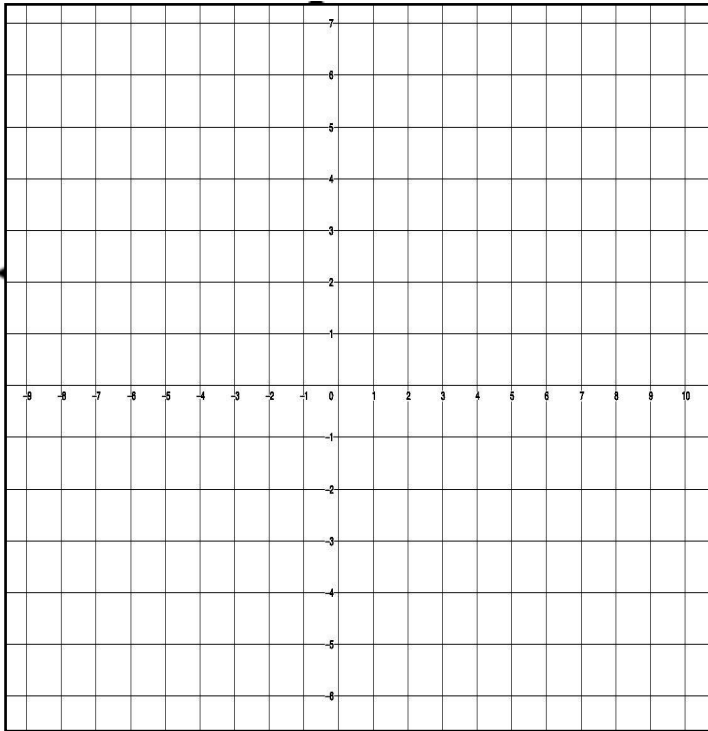
<b>x-intercepts:</b>	
<b>Vertical Asymptotes:</b>	
<b>Horizontal Asymptotes:</b>	
<b>Holes:</b>	NONE
<b>y-Intercept(s):</b>	
<b>Domain:</b>	
<b>Range:</b>	

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



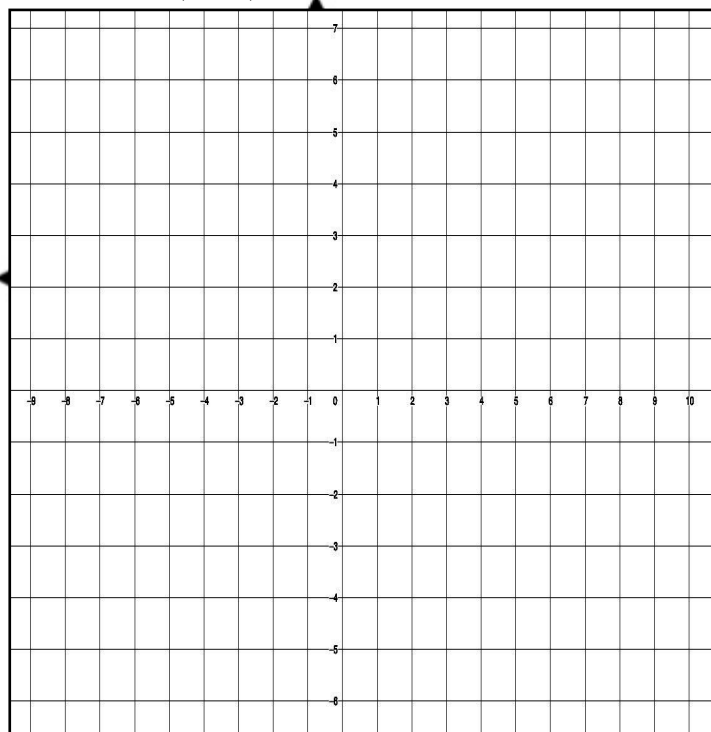
<b>x-intercepts:</b>	
<b>Vertical Asymptotes:</b>	
<b>Horizontal Asymptotes:</b>	
<b>Holes:</b>	NONE
<b>y-Intercept(s):</b>	
<b>Domain:</b>	
<b>Range:</b>	

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



$x$ -intercepts:	
Vertical Asymptotes:	
Horizontal Asymptotes:	
Holes:	NONE
$y$ -Intercept(s):	
Domain:	
Range	

$$f(x) = \frac{-1}{(x+5)} - 3$$



$x$ -intercepts:	
Vertical Asymptotes:	
Horizontal Asymptotes:	
Holes:	NONE
$y$ -Intercept(s):	
Domain:	
Range	