Name: _____

Show all your work and simplify your answers unless otherwise specified. If you do not turn in a rewrite within a week (or after the fifth attempt), your score will be solidified.

1. Preform the indicated operations for the following rational expressions. Make sure to simplify.

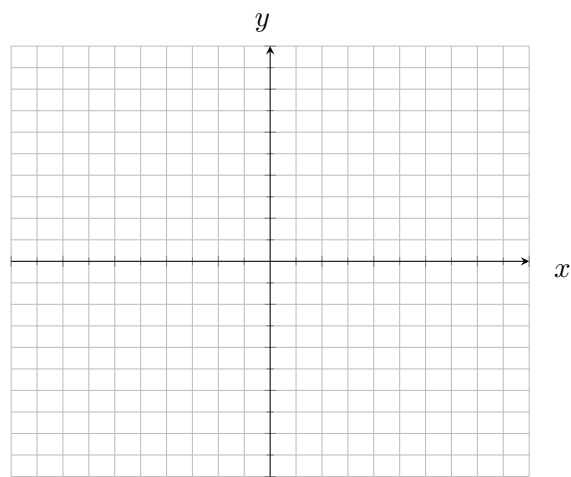   (a) $\dfrac{x-9}{x^2+7x} - \dfrac{x+1}{x^2-49}$

   (b) $\dfrac{4x^2-25}{x^3-27} \div \dfrac{(2x+5)(x+3)}{x^2+3x+9}$

2. Consider the equation $y = x^2 - 16$.

a) Find the following values.

x	y
-4	
-3	
-2	
-1	
0	
1	
2	
3	
4	

b) Graph the equation by plotting points.

c) List the x-intercepts.

d) List the y-intercepts.