Factor completely:

1. $100b^2 - 49$ **2.** $6x^2 - 7x - 5$
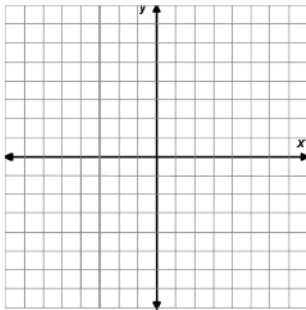
Simplify:

3. $\dfrac{x^2-9}{3} \cdot \dfrac{36}{x-3}$ 4. $\dfrac{5x}{x-3} \div \dfrac{5x}{4x-12}$

5. Solve the system of inequalities by graphing

$3x - 2y > 6$

$2x - y \leq 5$

6. Graph the equation

$y = 4 - x^2$

x	y
0	
1	
-1	
2	
-2	