

H.W.3.P.10

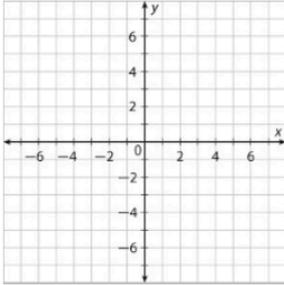
Rational Expressions

NAME:

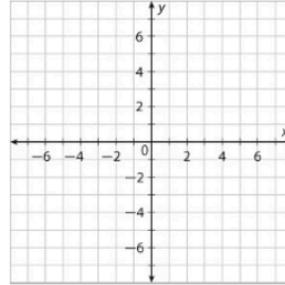
YOU MUST SHOW WORK FOR EACH PROBLEM

Identify any excluded values. Rewrite the equation with 0 on one side. Then graph to find the solution.

1. $-\frac{2}{x-3} = 2$



2. $\frac{4}{x-2} = -2$



Find the LCD for each pair.

3. $\frac{13}{4x}$ and $\frac{27}{3x^2}$

4. $\frac{11}{x^2+3x+2}$ and $\frac{1}{x+2}$

Solve each equation algebraically.

5. $\frac{1}{x} - \frac{x-2}{3x} = \frac{4}{3x}$

6. $\frac{5x-5}{x^2-4x} - \frac{5}{x^2-4x} = \frac{1}{x}$

7. $\frac{x^2-7x+10}{x} + \frac{1}{x} = x+4$

8. $\frac{4}{x^2-4} = \frac{1}{x-2}$