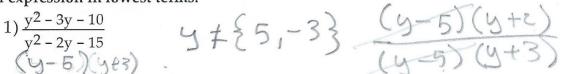
Name Keg

\_\_\_\_\_ Score \_\_\_\_\_

Find any values of the variable for which the rational expression is undefined. Express the rational expression in lowest terms.

1) 
$$\frac{y^2 - 3y - 10}{y^2 - 2y - 15}$$



Multiply or divide as indicated. Write the answer in lowest terms.

2) 
$$\frac{2t^2 - 13t - 24}{3t^2 - 2t - 5}$$
  $\div \frac{t^2 - 2t - 48}{3t^2 + 13t - 30}$ 

$$\frac{3t^2 - 2t - 5}{(2t + 36)(t + 5)} \frac{3t^2 + 13t - 30}{(3t - 5)(t + 6)} = \frac{(2t + 3)(t + 6)}{3t - 5}$$

$$\frac{(2t + 36)(t + 6)}{(2t + 3)(t + 6)} = \frac{(2t + 3)(t + 6)}{3t - 5}$$

Add or subtract as indicated. Write the answer in lowest terms.

$$3)\frac{2}{15x} - \frac{4}{21x^2}$$

$$3 \cdot 5 \cdot 8$$

$$3 \cdot 7 \cdot 8$$

$$2 \cdot 7 \times - 4$$

$$21x^2 \cdot 5 \cdot 14x - 20$$

$$15x \cdot 7x - 21x^2 \cdot 5 \cdot 105x^2$$

4) Add or subtract as indicated. Write the answer in lowest terms.

$$\frac{2}{y^2 - 3y + 2} + \frac{7}{y^2 - 1}$$

