

Name : \_\_\_\_\_ Score : \_\_\_\_\_

Teacher : \_\_\_\_\_ Date : \_\_\_\_\_

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### Solving Rational Expressions

Solve each equation.

1)  $\frac{1}{24x^2} = \frac{1}{12x^2} - \frac{1}{x}$

6)  $\frac{6}{x-3} - \frac{1}{x^2+6x-27} = \frac{1}{x-3}$

2)  $\frac{1}{n} = \frac{11}{6n} - 8$

7)  $\frac{1}{x-5} + \frac{1}{x^2-11x+30} = \frac{7}{x-5}$

3)  $\frac{y-6}{10y^2} + \frac{12}{5y^2} = \frac{y+7}{5y^2}$

8)  $5 + \frac{x^2-32x-5}{7x} = \frac{x+3}{7x}$

4)  $\frac{1}{p} + \frac{10p+7}{p^2-3p} = \frac{2p+4}{p^2-3p}$

9)  $\frac{1}{16k^2} = \frac{1}{8k^2} - \frac{1}{k}$

5)  $\frac{1}{d^2} = \frac{1}{25}$

10)  $\frac{1}{c} = \frac{5}{9c} - 6$

