Name : _____ Score : _____

Teacher : _____ Date : _____

Solving Rational Expressions

Solve each equation.

1) $\frac{1}{p} + \frac{2p + 5}{p^2 - 8p} = \frac{7p + 14}{p^2 - 8p}$

2) $\frac{y - 4}{16y^2} + \frac{11}{8y^2} = \frac{y - 2}{8y^2}$

3) $\frac{1}{22s^2} = \frac{1}{11s^2} + \frac{1}{s}$

4) $\frac{1}{d} = \frac{4}{3d} - 11$

5) $\frac{n + 3}{14n^2} + \frac{11}{7n^2} = \frac{n - 4}{7n^2}$

6) $\frac{b - 3}{8b^2} + \frac{12}{4b^2} = \frac{b + 5}{4b^2}$

7) $\frac{1}{4g^2} = \frac{1}{2g^2} + \frac{1}{g}$

8) $\frac{1}{k} + \frac{2k + 5}{k^2 + 7k} = \frac{9k - 18}{k^2 + 7k}$

9) $\frac{1}{20x^2} = \frac{1}{10x^2} + \frac{1}{x}$

10) $\frac{1}{r} + \frac{8r - 9}{r^2 - 12r} = \frac{8r - 16}{r^2 - 12r}$

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Solving Rational Expressions

Solve each equation.

1) $\frac{1}{p} + \frac{2p + 5}{p^2 - 8p} = \frac{7p + 14}{p^2 - 8p}$

$p = \frac{17}{-4}$

2) $\frac{y - 4}{16y^2} + \frac{11}{8y^2} = \frac{y - 2}{8y^2}$

$y = 22$

3) $\frac{1}{22s^2} = \frac{1}{11s^2} + \frac{1}{s}$

$s = \frac{1}{-22}$

4) $\frac{1}{d} = \frac{4}{3d} - 11$

$d = \frac{1}{33}$

5) $\frac{n + 3}{14n^2} + \frac{11}{7n^2} = \frac{n - 4}{7n^2}$

$n = 33$

6) $\frac{b - 3}{8b^2} + \frac{12}{4b^2} = \frac{b + 5}{4b^2}$

$b = 11$

7) $\frac{1}{4g^2} = \frac{1}{2g^2} + \frac{1}{g}$

$g = \frac{1}{-4}$

8) $\frac{1}{k} + \frac{2k + 5}{k^2 + 7k} = \frac{9k - 18}{k^2 + 7k}$

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9) $\frac{1}{20x^2} = \frac{1}{10x^2} + \frac{1}{x}$

$x = \frac{1}{-20}$

10) $\frac{1}{r} + \frac{8r - 9}{r^2 - 12r} = \frac{8r - 16}{r^2 - 12r}$

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