Name : _____ Score : _____

Teacher : _____ Date : _____

Solving Rational Expressions

Solve each equation.

1) $\frac{1}{x} + \frac{5x + 7}{x^2 - 8x} = \frac{10x + 20}{x^2 - 8x}$

2) $\frac{1}{s} = \frac{10}{6s} + 9$

3) $\frac{1}{16r^2} = \frac{1}{8r^2} - \frac{1}{r}$

4) $\frac{1}{g} + \frac{3g - 8}{g^2 - 7g} = \frac{11g + 22}{g^2 - 7g}$

5) $\frac{1}{10b^2} = \frac{1}{5b^2} - \frac{1}{b}$

6) $\frac{1}{c} = \frac{5}{7c} + 4$

7) $\frac{1}{z} = \frac{5}{12z} + 3$

8) $\frac{q - 11}{24q^2} + \frac{6}{12q^2} = \frac{q - 9}{12q^2}$

9) $\frac{1}{k^2} = \frac{1}{64}$

10) $\frac{1}{h^2} = \frac{1}{36}$

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Solving Rational Expressions

Solve each equation.

1) $\frac{1}{x} + \frac{5x + 7}{x^2 - 8x} = \frac{10x + 20}{x^2 - 8x}$

$x = \frac{21}{-4}$

2) $\frac{1}{s} = \frac{10}{6s} + 9$

$s = \frac{-2}{27}$

3) $\frac{1}{16r^2} = \frac{1}{8r^2} - \frac{1}{r}$

$r = \frac{1}{16}$

4) $\frac{1}{g} + \frac{3g - 8}{g^2 - 7g} = \frac{11g + 22}{g^2 - 7g}$

$g = \frac{37}{-7}$

5) $\frac{1}{10b^2} = \frac{1}{5b^2} - \frac{1}{b}$

$b = \frac{1}{10}$

6) $\frac{1}{c} = \frac{5}{7c} + 4$

$c = \frac{1}{14}$

7) $\frac{1}{z} = \frac{5}{12z} + 3$

$z = \frac{7}{36}$

8) $\frac{q - 11}{24q^2} + \frac{6}{12q^2} = \frac{q - 9}{12q^2}$

$q = 19$

9) $\frac{1}{k^2} = \frac{1}{64}$

$k = \pm 8$

10) $\frac{1}{h^2} = \frac{1}{36}$

$h = \pm 6$