

Name : _____ Score : _____

Teacher : _____ Date : _____

Solving Rational Expressions

Solve each equation.

$$1) \frac{1}{h^2} = \frac{1}{9}$$

$$6) \frac{1}{16r^2} = \frac{1}{8r^2} + \frac{1}{r}$$

$$2) \frac{1}{z^2} = \frac{1}{49}$$

$$7) \frac{1}{16q^2} = \frac{1}{8q^2} - \frac{1}{q}$$

$$3) \frac{1}{p} = \frac{9}{5p} - 3$$

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

$$4) \frac{1}{n} = \frac{12}{4n} - 5$$

$$9) \frac{1}{x^2} = \frac{1}{49}$$

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

$$10) \frac{1}{y} = \frac{9}{11y} + 5$$



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Solving Rational Expressions

Solve each equation.

$$1) \frac{1}{h^2} = \frac{1}{9}$$

$$h = \pm 3$$

$$6) \frac{1}{16r^2} = \frac{1}{8r^2} + \frac{1}{r}$$

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

$$2) \frac{1}{z^2} = \frac{1}{49}$$

$$z = \pm 7$$

$$7) \frac{1}{16q^2} = \frac{1}{8q^2} - \frac{1}{q}$$

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

$$3) \frac{1}{p} = \frac{9}{5p} - 3$$

$$p = \frac{4}{15}$$

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

$$k = \pm 3$$

$$4) \frac{1}{n} = \frac{12}{4n} - 5$$

$$n = \frac{2}{5}$$

$$9) \frac{1}{x^2} = \frac{1}{49}$$

$$x = \pm 7$$

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

$$b = \pm 5$$

$$10) \frac{1}{y} = \frac{9}{11y} + 5$$

$$y = \frac{2}{55}$$

