

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

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

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

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

## Solving Rational Expressions

Solve each equation.

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

$$6) \frac{1}{k} = \frac{6}{2k} + 3$$

$$2) \frac{1}{10r^2} = \frac{1}{5r^2} + \frac{1}{r}$$

$$7) \frac{1}{c^2} = \frac{1}{49}$$

$$3) \frac{1}{20q^2} = \frac{1}{10q^2} - \frac{1}{q}$$

$$8) \frac{1}{b} = \frac{7}{11b} + 2$$

$$4) \frac{1}{12g^2} = \frac{1}{6g^2} - \frac{1}{g}$$

$$9) \frac{1}{z} = \frac{12}{11z} + 6$$

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

$$10) \frac{1}{p^2} = \frac{1}{9}$$



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## Solving Rational Expressions

Solve each equation.

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

$$d = \pm 5$$

$$6) \frac{1}{k} = \frac{6}{2k} + 3$$

$$k = \frac{-2}{3}$$

$$2) \frac{1}{10r^2} = \frac{1}{5r^2} + \frac{1}{r}$$

$$r = \frac{1}{-10}$$

$$7) \frac{1}{c^2} = \frac{1}{49}$$

$$c = \pm 7$$

$$3) \frac{1}{20q^2} = \frac{1}{10q^2} - \frac{1}{q}$$

$$q = \frac{1}{20}$$

$$8) \frac{1}{b} = \frac{7}{11b} + 2$$

$$b = \frac{2}{11}$$

$$4) \frac{1}{12g^2} = \frac{1}{6g^2} - \frac{1}{g}$$

$$g = \frac{1}{12}$$

$$9) \frac{1}{z} = \frac{12}{11z} + 6$$

$$z = \frac{-1}{66}$$

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

$$h = \pm 5$$

$$10) \frac{1}{p^2} = \frac{1}{9}$$

$$p = \pm 3$$

