

Name : _____

Score : _____

Teacher : _____

Date : _____

Solving Radical Equations

Solve the Radical Equations. Multiple Solutions may exist.

1) $\frac{\sqrt{b}}{\sqrt{6}} = 6$

6) $-4 + \sqrt{k - 10} = 7$

2) $\sqrt{c} = 5$

7) $\frac{\sqrt{n}}{\sqrt{7}} = \sqrt{2n + 12}$

3) $\sqrt{d + 13} = 3$

8) $\frac{\sqrt{p}}{\sqrt{11}} = 4$

4) $\sqrt{g + 5} = 4$

9) $\sqrt{4q - 2} = \sqrt{2q + 6}$

5) $\sqrt{24 - 2h} = h$

10) $\frac{\sqrt{r}}{\sqrt{6}} = \sqrt{4r - 15}$



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Solving Radical Equations

Solve the Radical Equations. Multiple Solutions may exist.

$$1) \frac{\sqrt{b}}{\sqrt{6}} = 6$$

$$b = 216$$

$$6) -4 + \sqrt{k - 10} = 7$$

$$k = 131$$

$$2) \sqrt{c} = 5$$

$$c = 25$$

$$7) \frac{\sqrt{n}}{\sqrt{7}} = \sqrt{2n + 12}$$

$$n = \frac{-84}{13}$$

$$3) \sqrt{d + 13} = 3$$

$$d = -4$$

$$8) \frac{\sqrt{p}}{\sqrt{11}} = 4$$

$$p = 176$$

$$4) \sqrt{g + 5} = 4$$

$$g = 11$$

$$9) \sqrt{4q - 2} = \sqrt{2q + 6}$$

$$q = 4$$

$$5) \sqrt{24 - 2h} = h$$

$$h = \{4, -6\}$$

$$10) \frac{\sqrt{r}}{\sqrt{6}} = \sqrt{4r - 15}$$

$$r = \frac{90}{23}$$

