

Unit 4.4 Solve by taking Square Root Examples

Period _____

Solve each equation by taking square roots.

1) $r^2 = 90$

2) $n^2 = 85$

3) $m^2 - 5 = 59$

4) $2v^2 = 140$

5) $64p^2 = 16$

6) $36x^2 = 4$

7) $m^2 - 6 = 10$

8) $v^2 + 7 = 56$

$$9) 9n^2 = 540$$

$$10) n^2 - 1 = 15$$

$$11) 64r^2 + 4 = 20$$

$$12) 9x^2 + 6 = 231$$

$$13) 6x^2 - 7 = 383$$

$$14) 8n^2 - 3 = 325$$

$$15) 7a^2 - 6 = 50$$

$$16) 3p^2 + 8 = 95$$

$$17) 10b^2 - 5 = 845$$

$$18) 64x^2 + 3 = 39$$

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Period _____

Solve each equation by taking square roots.

1) $r^2 = 90$

$\{3\sqrt{10}, -3\sqrt{10}\}$

2) $n^2 = 85$

$\{\sqrt{85}, -\sqrt{85}\}$

3) $m^2 - 5 = 59$

$\{8, -8\}$

4) $2v^2 = 140$

$\{\sqrt{70}, -\sqrt{70}\}$

5) $64p^2 = 16$

$\left\{\frac{1}{2}, -\frac{1}{2}\right\}$

6) $36x^2 = 4$

$\left\{\frac{1}{3}, -\frac{1}{3}\right\}$

7) $m^2 - 6 = 10$

$\{4, -4\}$

8) $v^2 + 7 = 56$

$\{7, -7\}$

$$9) 9n^2 = 540$$

$$\{2\sqrt{15}, -2\sqrt{15}\}$$

$$10) n^2 - 1 = 15$$

$$\{4, -4\}$$

$$11) 64r^2 + 4 = 20$$

$$\left\{\frac{1}{2}, -\frac{1}{2}\right\}$$

$$12) 9x^2 + 6 = 231$$

$$\{5, -5\}$$

$$13) 6x^2 - 7 = 383$$

$$\{\sqrt{65}, -\sqrt{65}\}$$

$$14) 8n^2 - 3 = 325$$

$$\{\sqrt{41}, -\sqrt{41}\}$$

$$15) 7a^2 - 6 = 50$$

$$\{2\sqrt{2}, -2\sqrt{2}\}$$

$$16) 3p^2 + 8 = 95$$

$$\{\sqrt{29}, -\sqrt{29}\}$$

$$17) 10b^2 - 5 = 845$$

$$\{\sqrt{85}, -\sqrt{85}\}$$

$$18) 64x^2 + 3 = 39$$

$$\left\{\frac{3}{4}, -\frac{3}{4}\right\}$$