

SOLVE BY SQUARE ROOTS

Solve each equation by taking square roots.

1) $b^2 - 2 = 14$

- A) $\{3, -3\}$ B) $\{\sqrt{13}, -\sqrt{13}\}$
 C) $\{16, -16\}$ D) $\{4, -4\}$

2) $x^2 + 6 = 57$

- A) $\{51, -51\}$ B) $\{63, -63\}$
 C) $\{\sqrt{51}, -\sqrt{51}\}$ D) $\{9, -9\}$

3) $6r^2 = 588$

- A) $\{\sqrt{29}, -\sqrt{29}\}$ B) $\{2, -2\}$
 C) $\{7\sqrt{2}, -7\sqrt{2}\}$ D) $\{7\sqrt{2}\}$

4) $x^2 - 2 = 62$

- A) $\{8, -8\}$ B) $\{60, -60\}$
 C) $\{10, -10\}$ D) $\{2\sqrt{15}\}$

5) $64n^2 = 16$

- A) $\{\sqrt{22}\}$ B) $\{2, -2\}$
 C) $\left\{\frac{1}{2}, -\frac{1}{2}\right\}$ D) $\{\sqrt{46}, -\sqrt{46}\}$

6) $x^2 + 1 = 55$

- A) $\{68, -68\}$ B) $\{3\sqrt{6}, -3\sqrt{6}\}$
 C) $\{4, -4\}$ D) $\{4\sqrt{3}, -4\sqrt{3}\}$

7) $10p^2 = 640$

- A) $\{\sqrt{89}, -\sqrt{89}\}$ B) $\{8, -8\}$
 C) $\{2\sqrt{2}, -2\sqrt{2}\}$ D) $\{\sqrt{89}\}$

8) $n^2 - 3 = 26$

- A) $\{\sqrt{23}\}$ B) $\{29, -29\}$
 C) $\{\sqrt{29}\}$ D) $\{\sqrt{29}, -\sqrt{29}\}$

9) $64b^2 - 10 = 71$

- A) $\{1, -1\}$ B) $\left\{\frac{9}{8}, -\frac{9}{8}\right\}$
 C) $\{\sqrt{43}, -\sqrt{43}\}$ D) $\{5, -5\}$

10) $2n^2 + 10 = 32$

- A) $\{\sqrt{11}, -\sqrt{11}\}$ B) $\{\sqrt{21}\}$
 C) $\{\sqrt{21}, -\sqrt{21}\}$ D) $\{11, -11\}$

11) $7n^2 + 1 = 253$

- A) $\{2\sqrt{2}, -2\sqrt{2}\}$ B) $\left\{\frac{5}{6}, -\frac{5}{6}\right\}$
 C) $\left\{\frac{8}{3}, -\frac{8}{3}\right\}$ D) $\{6, -6\}$

12) $6p^2 + 9 = 225$

- A) $\{6, -6\}$ B) $\left\{\frac{2}{5}, -\frac{2}{5}\right\}$
 C) $\left\{\frac{1}{5}, -\frac{1}{5}\right\}$ D) $\left\{\frac{10}{7}, -\frac{10}{7}\right\}$

$$13) 4 - 8n^2 = -92$$

$$A) \{2\sqrt{3}\}$$

$$B) \left\{ \frac{3\sqrt{6}}{7}, -\frac{3\sqrt{6}}{7} \right\}$$

$$C) \left\{ \frac{6}{7}, -\frac{6}{7} \right\}$$

$$D) \{2\sqrt{3}, -2\sqrt{3}\}$$

$$15) -x^2 = -86$$

$$14) 9x^2 + 1 = 433$$

$$A) \left\{ \frac{\sqrt{434}}{3} \right\}$$

$$B) \{48, -48\}$$

$$C) \{9, -9\}$$

$$D) \{4\sqrt{3}, -4\sqrt{3}\}$$

$$16) 2x^2 = 96$$

$$17) x^2 + 2 = 38$$

$$18) m^2 + 2 = 88$$

$$19) x^2 - 7 = -6$$

$$20) -4b^2 = -260$$

$$21) x^2 - 8 = 56$$

$$22) x^2 + 7 = 67$$

$$23) 6x^2 - 10 = 332$$

$$24) 3n^2 + 7 = 73$$

$$25) 9n^2 + 10 = 235$$

$$26) 100n^2 + 10 = 74$$

$$27) 10m^2 - 2 = 778$$

$$28) 2b^2 + 10 = 60$$

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