

Algebra II Practice A.REI.B.4: Solving Quadratics 15b

Solve each equation by taking square roots.

1) $6n^2 + 7 = 463$

2) $3x^2 - 5 = 283$

3) $3n^2 + 1 = 37$

4) $7k^2 + 6 = 370$

5) $6n^2 - 7 = 233$

6) $2x^2 + 8 = 152$

7) $10x^2 - 4 = 956$

8) $4r^2 - 1 = 107$

9) $10n^2 - 3 = 477$

10) $6k^2 + 7 = 127$

11) $10x^2 - 3 = 397$

12) $-5 - 2x^2 = -69$

13) $2 - 10x^2 = -538$

14) $9x^2 + 8 = 368$

15) $4p^2 - 2 = 318$

16) $7b^2 + 5 = 425$

17) $-8 - 8p^2 = -512$

18) $2v^2 - 8 = 112$

19) $3x^2 - 3 = 78$

20) $5k^2 - 2 = 373$

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Solve each equation by taking square roots.

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$\{2\sqrt{19}, -2\sqrt{19}\}$

2) $3x^2 - 5 = 283$

$\{4\sqrt{6}, -4\sqrt{6}\}$

3) $3n^2 + 1 = 37$

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

4) $7k^2 + 6 = 370$

$\{2\sqrt{13}, -2\sqrt{13}\}$

5) $6n^2 - 7 = 233$

$\{2\sqrt{10}, -2\sqrt{10}\}$

6) $2x^2 + 8 = 152$

$\{6\sqrt{2}, -6\sqrt{2}\}$

7) $10x^2 - 4 = 956$

$\{4\sqrt{6}, -4\sqrt{6}\}$

8) $4r^2 - 1 = 107$

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

9) $10n^2 - 3 = 477$

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10) $6k^2 + 7 = 127$

$\{2\sqrt{5}, -2\sqrt{5}\}$

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12) $-5 - 2x^2 = -69$

$\{4\sqrt{2}, -4\sqrt{2}\}$

13) $2 - 10x^2 = -538$

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14) $9x^2 + 8 = 368$

$\{2\sqrt{10}, -2\sqrt{10}\}$

15) $4p^2 - 2 = 318$

$\{4\sqrt{5}, -4\sqrt{5}\}$

16) $7b^2 + 5 = 425$

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

17) $-8 - 8p^2 = -512$

$\{3\sqrt{7}, -3\sqrt{7}\}$

18) $2v^2 - 8 = 112$

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

19) $3x^2 - 3 = 78$

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

20) $5k^2 - 2 = 373$

$\{5\sqrt{3}, -5\sqrt{3}\}$