

Solve Quadratics by Finding Square Roots

Name _____

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Date _____

Solve each equation by taking square roots.

1) $10p^2 - 5 = 805$

2) $3k^2 + 10 = 37$

3) $5p^2 - 1 = 4$

4) $-9 - 10n^2 = -259$

5) $6n^2 - 6 = 90$

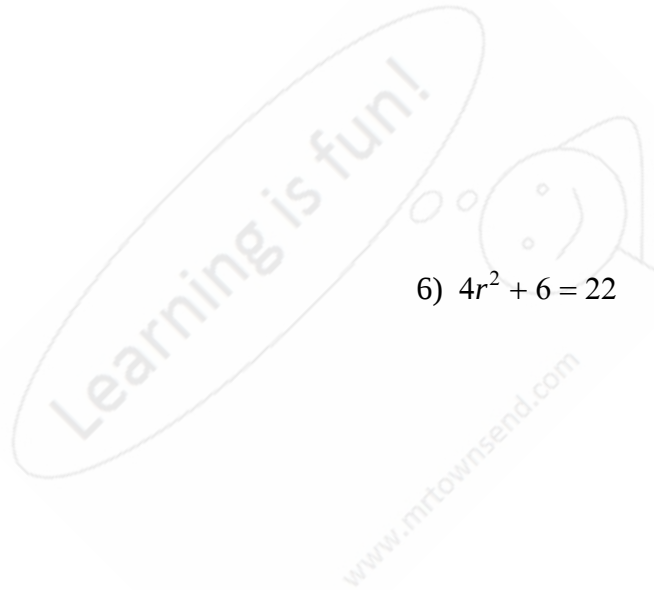
6) $4r^2 + 6 = 22$

7) $6n^2 - 2 = 484$

8) $2m^2 + 1 = 99$

9) $7n^2 - 8 = 104$

10) $16n^2 - 5 = -1$



11) $6v^2 + 6 = 300$

12) $16n^2 - 5 = 76$

13) $3v^2 - 5 = 7$

14) $16v^2 - 9 = 72$

15) $5r^2 - 10 = 490$

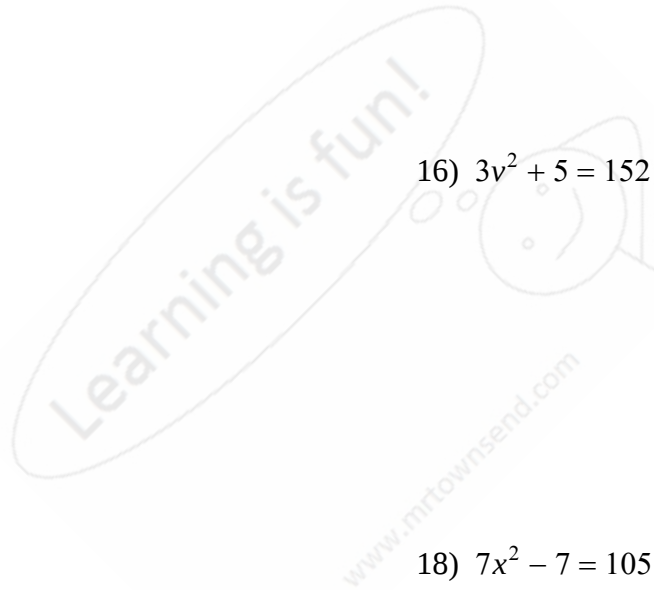
16) $3v^2 + 5 = 152$

17) $64x^2 + 4 = 53$

18) $7x^2 - 7 = 105$

19) $4 - 2n^2 = -4$

20) $16n^2 - 9 = 7$



Answers to Solve Quadratics by Finding Square Roots

1) $\{9, -9\}$

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

9) $\{4, -4\}$

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

17) $\left\{\frac{7}{8}, -\frac{7}{8}\right\}$

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

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

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

14) $\left\{\frac{9}{4}, -\frac{9}{4}\right\}$

18) $\{4, -4\}$

3) $\{1, -1\}$

7) $\{9, -9\}$

11) $\{7, -7\}$

15) $\{10, -10\}$

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

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

8) $\{7, -7\}$

12) $\left\{\frac{9}{4}, -\frac{9}{4}\right\}$

16) $\{7, -7\}$

20) $\{1, -1\}$

