

TEST Review

Date _____ Period _____

Solve each equation by completing the square.

1) $3n^2 + 18n - 82 = -8$

2) $5n^2 - 20n - 28 = -3$

3) $9m^2 - 18m + 15 = 10$

4) $6n^2 - 12n - 15 = 3$

Solve each equation by factoring.

5) $n^2 - 7n = 0$

6) $x^2 - 6 = x$

7) $x^2 = -10x - 25$

8) $x^2 = -6x + 7$

Solve each equation by taking square roots.

9) $6x^2 + 8 = 128$

10) $10x^2 + 10 = 370$

11) $2a^2 - 4 = 174$

12) $3v^2 - 8 = 91$

Solve each equation with the quadratic formula.

13) $m^2 - 88 = 3m$

14) $3x^2 - 1 = 5x$

15) $5p^2 + 4p = 28$

16) $4k^2 - 49 = 0$

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Date _____ Period _____

Solve each equation by completing the square.

1) $3n^2 + 18n - 82 = -8$

$\{2.802, -8.802\}$

2) $5n^2 - 20n - 28 = -3$

$\{5, -1\}$

3) $9m^2 - 18m + 15 = 10$

$\{1.667, 0.333\}$

4) $6n^2 - 12n - 15 = 3$

$\{3, -1\}$

Solve each equation by factoring.

5) $n^2 - 7n = 0$

$\{7, 0\}$

6) $x^2 - 6 = x$

$\{3, -2\}$

7) $x^2 = -10x - 25$

$\{-5\}$

8) $x^2 = -6x + 7$

$\{-7, 1\}$

Solve each equation by taking square roots.

9) $6x^2 + 8 = 128$

$\{4.472, -4.472\}$

10) $10x^2 + 10 = 370$

$\{6, -6\}$

11) $2a^2 - 4 = 174$

$\{9.434, -9.434\}$

12) $3v^2 - 8 = 91$

$\{5.745, -5.745\}$

Solve each equation with the quadratic formula.

13) $m^2 - 88 = 3m$

$\{11, -8\}$

14) $3x^2 - 1 = 5x$

$\{1.847, -0.18\}$

15) $5p^2 + 4p = 28$

$\{2, -2.8\}$

16) $4k^2 - 49 = 0$

$\{3.5, -3.5\}$