

Transitional Math

Date _____ Period _____

Solve each equation.

1) $-88 = 8(x - 4)$

2) $8(1 - 8p) - 8 = 320$

3) $-4(4v - 3) = 140$

4) $-3(8x - 7) = -171$

5) $-8(6 + 4n) = -304$

6) $-165 = 5(8n + 7)$

7) $-144 = -8(-6 - 4k)$

8) $114 = -2(-8r + 7)$

9) $2 + 6(1 - 5b) = -172$

10) $-102 = 3(1 - 5x)$

11) $-192 = 4(1 + 7a)$

12) $-k + 5(5k + 2) = 106$

13) $8(7x + 6) = 384$

14) $232 = -4(7r + 6) - 4r$

15) $-7 + 5(1 + 3x) = -92$

$$\frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

Transitional Math

Solve each equation with the quadratic formula.

1) $2n^2 - 3n + 1 = 0$
A B C

2) $m^2 + 4m + 3 = 0$

3) $2k^2 - 5k - 25 = 0$

4) $2k^2 + 3k - 2 = 0$

5) $x^2 - 5x + 6 = 0$

6) $2m^2 - 4m - 16 = 0$

7) $2r^2 + r - 15 = 0$

8) $2m^2 - 3m - 9 = 0$

9) $2k^2 - k - 3 = 0$

10) $2x^2 + 3x - 20 = 0$

Transitional Math

Solve each equation by factoring.

1) $v^2 + 12 = -8v$

2) $n^2 = 5 - 4n$

3) $a^2 = 2a$

4) $m^2 = 7m$

5) $x^2 - 2x = 35$

6) $r^2 = -5 + 6r$

7) $v^2 = 7v + 8$

8) $p^2 - 2p = 3$

9) $x^2 = -12 - 7x$

10) $x^2 + 15 = -8x$

11) $x^2 + 5 = 6x$

12) $n^2 = 32 + 4n$

13) $n^2 + 24 = -11n$

14) $m^2 = 16 - 6m$

15) $b^2 - b = 12$

Transitional Math

Solve each equation by completing the square.

1) $k^2 + 4k - 77 = 0$

2) $x^2 - 20x - 44 = 0$

3) $n^2 - 12n + 11 = 0$

4) $n^2 + 8n - 9 = 0$

5) $x^2 - 8x - 41 = 0$

6) $k^2 + 4k - 32 = 0$

7) $x^2 + 14x + 9 = 0$

8) $m^2 - 14m - 90 = 0$

9) $x^2 + 4x - 45 = 0$

10) $k^2 - 6k - 7 = 0$

11) $a^2 + 14a + 25 = 0$

12) $x^2 + 20x + 53 = 0$

13) $x^2 + 2x - 35 = 0$

14) $k^2 - 6k - 51 = 0$

15) $n^2 + 2n - 63 = 0$

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

Transitional Math

Find the slope of the line through each pair of points.

1) $(-19, 19), (16, 0)$
 $x_1 \ y_1 \ x_2 \ y_2$

2) $(-15, 12), (-15, 1)$

3) $(-9, 1), (-17, 2)$

4) $(17, -11), (-10, -3)$

5) $(-16, -18), (3, 18)$

6) $(-2, -15), (7, -16)$

7) $(11, 14), (-10, -13)$

8) $(-17, -6), (-5, 3)$

9) $(-12, 0), (-7, 13)$

10) $(-7, -3), (-2, 18)$

11) $(7, -9), (12, -19)$

12) $(13, 10), (-19, -8)$

13) $(3, -13), (-12, -14)$

14) $(10, -13), (6, 15)$

15) $(12, 6), (-1, 10)$