Name : _____ Score : _____

Teacher : _____ Date : _____

Solve Quadratic Equations by Completing the Square

Solve each equation by completing the square.

1) $10m^2 + 19m + 7 = 0$

2) $y^2 + 2y - 15 = 0$

3) $10w^2 + 22w - 29 = 43$

4) $12y^2 - 40y = -33$

5) $x^2 - 9x + 5 = -15$

6) $x^2 - 15x + 53 = -3$

7) $12p^2 + 8p - 61 = 23$

8) $12p^2 - 44p = -24$

9) $x^2 + 19x = -88$

10) $m^2 + 2m = 80$

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Solve Quadratic Equations by Completing the Square

Solve each equation by completing the square.

1) $10m^2 + 19m + 7 = 0$

$m = \{ \frac{-7}{5} , \frac{-1}{2} \}$

2) $y^2 + 2y - 15 = 0$

$y = \{ -5 , 3 \}$

3) $10w^2 + 22w - 29 = 43$

$w = \{ \frac{9}{5} , -4 \}$

4) $12y^2 - 40y = -33$

$y = \{ \frac{11}{6} , \frac{3}{2} \}$

5) $x^2 - 9x + 5 = -15$

$x = \{ 5 , 4 \}$

6) $x^2 - 15x + 53 = -3$

$x = \{ 7 , 8 \}$

7) $12p^2 + 8p - 61 = 23$

$p = \{ -3 , \frac{7}{3} \}$

8) $12p^2 - 44p = -24$

$p = \{ 3 , \frac{2}{3} \}$

9) $x^2 + 19x = -88$

$x = \{ -8 , -11 \}$

10) $m^2 + 2m = 80$

$m = \{ 8 , -10 \}$