Solving Quadratic Equations
by Completing the Square

1. $x^2 - 4x - 98 = 0$

2. $y^2 - 2y - 15 = 0$

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3. $3x^2 - x - 3 = 0$

4. $x^2 - 12x + 15 = 0$

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5. $x^2 - 3x - 2 = 0$

6. $n^2 - 6n - 55 = 0$

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7. $p^2 - 10p + 26 = 8$

8. $-2y^2 + 3y = -7$

Solving Quadratic Equations
by Completing the Square

1 $x^2 - 4x - 98 = 0$

$$\left(2 + \sqrt{102}, \ 2 - \sqrt{102}\right)$$
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3 $3x^2 - x - 3 = 0$

$$\left(\frac{1 + \sqrt{37}}{6}, \ \frac{1 - \sqrt{37}}{6}\right)$$
----

5 $x^2 - 3x - 2 = 0$

$$\left(\frac{3 + \sqrt{17}}{2}, \ \frac{3 - \sqrt{17}}{2}\right)$$
----

7 $p^2 - 10p + 26 = 8$

$$\left(5 + \sqrt{7}, \ 5 - \sqrt{7}\right)$$
----

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

$$(5, -3)$$
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4 $x^2 - 12x + 15 = 0$

$$\left(6 + \sqrt{21}, \ 6 - \sqrt{21}\right)$$
----

6 $n^2 - 6n - 55 = 0$

$$(11, -5)$$
----

8 $-2y^2 + 3y = -7$

$$\left(\frac{3 + \sqrt{65}}{4}, \ \frac{3 - \sqrt{65}}{4}\right)$$