11/29/12   Gallery Walk Problems

Solve by completing the square

① $x^2 = 4 - 2x$ ② $x^2 + 7x - 2 = 0$ ③ $x^2 - 5x + 1 = 0$

④ $u^2 + 5 = u$ ⑤ $w(w - 3) = -1$

Solve using the quadratic formula.

⑥ $x^2 + 2x + 8 = 0$ ⑦ $4x^2 - 5x - 11 = 0$

⑧ $2x^2 - 6x + 7 = 0$ ⑨ $5x^2 - 7x + 12 = 0$

Determine the nature of the roots using the discriminant.

⑩ $x^2 = x + 21$ ⑪ $3x^2 - 8x - 35 = 0$ ⑫ $2x^2 + 3x + 2 = 0$

⑬ $5x^2 + 7x + 2 = 0$ ⑭ $3x^2 - 4x + 2 = 0$ ⑮ $4x^2 - 8x = -4$