

T/PC

Review P.1, P.3, P.5

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Solve each equation below by completing the square.

$$\textcircled{1} y^2 + 2y - 80 = 0 \quad \textcircled{2} x^2 - 10x - 7 = 3 \quad \textcircled{3} k^2 + 16k + 60 = 5$$

$$\textcircled{4} 2x^2 - 24x + 70 = -30 \quad \textcircled{5} 5y^2 + 30y - 75 = 100$$

Solve each equation below using the quadratic formula.

$$\textcircled{6} 3x^2 + 10x + 5 = 0 \quad \textcircled{7} 2d^2 + 4 = 5d \quad \textcircled{8} 4x^2 - 3x = 1 \quad \textcircled{9} 2x = 7 - x^2 \quad \textcircled{10} y^2 + 9 = -9y$$

Simplify. Use one step per power rule used.

$$\textcircled{11} \frac{-27w^3t^7}{-3w^3t^{12}} \quad \textcircled{12} \frac{(3c^2)^2(-d^5)}{-45c^7d^3} \quad \textcircled{13} \frac{-15r^5s^8(r^3s^2)}{45r^4s} \quad \textcircled{14} \frac{(-2r^3)^2(r^{-2})^{-1}}{(r^2)^{-3}} \quad \textcircled{15} \frac{16b^6c^5}{(2b^2c)^2} \quad \textcircled{16} \frac{-2a^3b^6}{24a^2b^2}$$