Résolution d'Équations Quadratiques (E)

Calculer les solutions des équations suivantes.

1. $x^2 + 2x - 1 = 62$

2. $x^2 - 3x - 13 = 5$

3. $x^2 - 18 = 18$

4. $-x^2 - 5x - 2 = 2$

5. $-x^2 + 4 = 0$

6. $x^2 + 11x + 10 = -8$

7. $-x^2 + 3x + 12 = -6$

8. $x^2 - 27 = 54$

9. $-x^2 - 4x + 10 = -2$

10. $-x^2 + x + 26 = -16$

11. $x^2 - 9x + 8 = -10$

12. $x^2 + 2x - 8 = 55$

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Résolution d'Équations Quadratiques (E) Réponses

Calculer les solutions des équations suivantes.

1. $x^2 + 2x - 1 = 62$
   $x^2 + 2x - 63 = 0$
   $(x + 9)(x - 7) = 0$
   $x = -9, 7$

2. $x^2 - 3x - 13 = 5$
   $x^2 - 3x - 18 = 0$
   $(x - 6)(x + 3) = 0$
   $x = 6, -3$

3. $x^2 - 18 = 18$
   $x^2 - 36 = 0$
   $(x - 6)(x + 6) = 0$
   $x = 6, -6$

4. $-x^2 - 5x - 2 = 2$
   $-x^2 - 5x - 4 = 0$
   $-(x + 1)(x + 4) = 0$
   $x = -1, -4$

5. $-x^2 + 4 = 0$
   $-x^2 + 4 = 0$
   $(x - 2)(x + 2) = 0$
   $x = 2, -2$

6. $x^2 + 11x + 10 = -8$
   $x^2 + 11x + 18 = 0$
   $(x + 2)(x + 9) = 0$
   $x = -2, -9$

7. $-x^2 + 3x + 12 = -6$
   $-x^2 + 3x + 18 = 0$
   $-(x - 6)(x + 3) = 0$
   $x = 6, -3$

8. $x^2 - 27 = 54$
   $x^2 - 81 = 0$
   $(x - 9)(x + 9) = 0$
   $x = 9, -9$

9. $-x^2 - 4x + 10 = -2$
   $-x^2 - 4x + 12 = 0$
   $-(x - 2)(x + 6) = 0$
   $x = 2, -6$

10. $-x^2 + x + 26 = -16$
    $-x^2 + x + 42 = 0$
    $-(x - 7)(x + 6) = 0$
    $x = 7, -6$

11. $x^2 - 9x + 8 = -10$
    $x^2 - 9x + 18 = 0$
    $(x - 3)(x - 6) = 0$
    $x = 3, 6$

12. $x^2 + 2x - 8 = 55$
    $x^2 + 2x - 63 = 0$
    $(x + 9)(x - 7) = 0$
    $x = -9, 7$