Résolution d'Équations Quadratiques (I)

Calculer les solutions des équations suivantes.

1. $x^2 + 2x - 8 = 27$

2. $x^2 - 4x - 2 = 3$

3. $x^2 - 15x + 32 = -24$

4. $x^2 + 7x - 2 = 6$

5. $x^2 + 3x - 4 = 36$

6. $x^2 + 9x + 3 = -5$

7. $x^2 + 6x + 4 = -1$

8. $x^2 + x - 25 = 17$

9. $x^2 + 14x + 36 = -9$

10. $x^2 - 8 = 17$

11. $x^2 + 8x + 7 = 0$

12. $x^2 - 22 = 14$

Résolution d'Équations Quadratiques (I) Réponses

Calculer les solutions des équations suivantes.

1. $x^2 + 2x - 8 = 27$
    $x^2 + 2x - 35 = 0$
    $(x + 7)(x - 5) = 0$
    $x = -7 , 5$

2. $x^2 - 4x - 2 = 3$
    $x^2 - 4x - 5 = 0$
    $(x + 1)(x - 5) = 0$
    $x = -1 , 5$

3. $x^2 - 15x + 32 = -24$
    $x^2 - 15x + 56 = 0$
    $(x - 8)(x - 7) = 0$
    $x = 8 , 7$

4. $x^2 + 7x - 2 = 6$
    $x^2 + 7x - 8 = 0$
    $(x - 1)(x + 8) = 0$
    $x = 1 , -8$

5. $x^2 + 3x - 4 = 36$
    $x^2 + 3x - 40 = 0$
    $(x - 5)(x + 8) = 0$
    $x = 5 , -8$

6. $x^2 + 9x + 3 = -5$
    $x^2 + 9x + 8 = 0$
    $(x + 1)(x + 8) = 0$
    $x = -1 , -8$

7. $x^2 + 6x + 4 = -1$
    $x^2 + 6x + 5 = 0$
    $(x + 1)(x + 5) = 0$
    $x = -1 , -5$

8. $x^2 + x - 25 = 17$
    $x^2 + x - 42 = 0$
    $(x + 7)(x - 6) = 0$
    $x = -7 , 6$

9. $x^2 + 14x + 36 = -9$
    $x^2 + 14x + 45 = 0$
    $(x + 5)(x + 9) = 0$
    $x = -5 , -9$

10. $x^2 - 8 = 17$
    $x^2 - 25 = 0$
    $(x + 5)(x - 5) = 0$
    $x = -5 , 5$

11. $x^2 + 8x + 7 = 0$
    $x^2 + 8x + 7 = 0$
    $(x + 1)(x + 7) = 0$
    $x = -1 , -7$

12. $x^2 - 22 = 14$
    $x^2 - 36 = 0$
    $(x + 6)(x - 6) = 0$
    $x = -6 , 6$

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