Résolution d'Équations Quadratiques (H)

Calculer les solutions des équations suivantes.

1. $x^2 - 6x - 4 = 3$

2. $x^2 + 18x + 56 = -25$

3. $x^2 + 7x - 2 = 16$

4. $x^2 - 3x - 1 = 27$

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

6. $x^2 + 12x + 2 = -34$

7. $x^2 - 12x + 15 = -17$

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

9. $x^2 + 8x + 4 = -12$

10. $x^2 - 13x + 16 = -24$

11. $x^2 - 4x + 1 = -2$

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

Résolution d'Équations Quadratiques (H) Réponses

Calculer les solutions des équations suivantes.

1. $x^2 - 6x - 4 = 3$
   $x^2 - 6x - 7 = 0$
   $(x + 1)(x - 7) = 0$
   $x = -1 \ , \ 7$

2. $x^2 + 18x + 56 = -25$
   $x^2 + 18x + 81 = 0$
   $(x + 9)(x + 9) = 0$
   $x = -9$

3. $x^2 + 7x - 2 = 16$
   $x^2 + 7x - 18 = 0$
   $(x + 9)(x - 2) = 0$
   $x = -9 \ , \ 2$

4. $x^2 - 3x - 1 = 27$
   $x^2 - 3x - 28 = 0$
   $(x - 7)(x + 4) = 0$
   $x = 7 \ , \ -4$

5. $x^2 - 6x + 2 = -6$
   $x^2 - 6x + 8 = 0$
   $(x - 4)(x - 2) = 0$
   $x = 4 \ , \ 2$

6. $x^2 + 12x + 2 = -34$
   $x^2 + 12x + 36 = 0$
   $(x + 6)(x + 6) = 0$
   $x = -6$

7. $x^2 - 12x + 15 = -17$
   $x^2 - 12x + 32 = 0$
   $(x - 4)(x - 8) = 0$
   $x = 4 \ , \ 8$

8. $x^2 + 2x - 2 = 1$
   $x^2 + 2x - 3 = 0$
   $(x - 1)(x + 3) = 0$
   $x = 1 \ , \ -3$

9. $x^2 + 8x + 4 = -12$
   $x^2 + 8x + 16 = 0$
   $(x + 4)(x + 4) = 0$
   $x = -4$

10. $x^2 - 13x + 16 = -24$
    $x^2 - 13x + 40 = 0$
    $(x - 5)(x - 8) = 0$
    $x = 5 \ , \ 8$

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

12. $x^2 - 6x + 6 = -3$
    $x^2 - 6x + 9 = 0$
    $(x - 3)(x - 3) = 0$
    $x = 3$