Résolution d'Équations Quadratiques (B)

Calculer les solutions des équations suivantes.

1. $x^2 + x - 7 = 35$

2. $x^2 - 4x - 6 = 15$

3. $x^2 - x - 34 = 8$

4. $x^2 - 14x + 15 = -30$

5. $x^2 + 4x - 9 = 3$

6. $x^2 - 5x - 9 = 27$

7. $x^2 + 3x - 12 = 16$

8. $x^2 - 12x + 2 = -25$

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

10. $x^2 - 7x + 8 = -4$

11. $x^2 + 9x + 11 = -3$

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

Résolution d'Équations Quadratiques (B) Réponses

Calculer les solutions des équations suivantes.

1. $x^2 + x - 7 = 35$
   $x^2 + x - 42 = 0$
   $(x - 6)(x + 7) = 0$
   $x = 6 \ , \ -7$

2. $x^2 - 4x - 6 = 15$
   $x^2 - 4x - 21 = 0$
   $(x - 7)(x + 3) = 0$
   $x = 7 \ , \ -3$

3. $x^2 - x - 34 = 8$
   $x^2 - x - 42 = 0$
   $(x - 7)(x + 6) = 0$
   $x = 7 \ , \ -6$

4. $x^2 - 14x + 15 = -30$
   $x^2 - 14x + 45 = 0$
   $(x - 9)(x - 5) = 0$
   $x = 9 \ , \ 5$

5. $x^2 + 4x - 9 = 3$
   $x^2 + 4x - 12 = 0$
   $(x + 6)(x - 2) = 0$
   $x = -6 \ , \ 2$

6. $x^2 - 5x - 9 = 27$
   $x^2 - 5x - 36 = 0$
   $(x - 9)(x + 4) = 0$
   $x = 9 \ , \ -4$

7. $x^2 + 3x - 12 = 16$
   $x^2 + 3x - 28 = 0$
   $(x + 7)(x - 4) = 0$
   $x = -7 \ , \ 4$

8. $x^2 - 12x + 2 = -25$
   $x^2 - 12x + 27 = 0$
   $(x - 3)(x - 9) = 0$
   $x = 3 \ , \ 9$

9. $x^2 - 6x + 3 = -5$
   $x^2 - 6x + 8 = 0$
   $(x - 2)(x - 4) = 0$
   $x = 2 \ , \ 4$

10. $x^2 - 7x + 8 = -4$
    $x^2 - 7x + 12 = 0$
    $(x - 4)(x - 3) = 0$
    $x = 4 \ , \ 3$

11. $x^2 + 9x + 11 = -3$
    $x^2 + 9x + 14 = 0$
    $(x + 2)(x + 7) = 0$
    $x = -2 \ , \ -7$

12. $x^2 - x - 4 = 8$
    $x^2 - x - 12 = 0$
    $(x - 4)(x + 3) = 0$
    $x = 4 \ , \ -3$