Résolution d'Équations Quadratiques (F)

Calculer les solutions des équations suivantes.

1. $x^2 - 4x - 3 = 9$

2. $x^2 - 15x + 29 = -25$

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

4. $x^2 - 10x + 10 = -14$

5. $x^2 - 13x + 12 = -24$

6. $x^2 - 25 = 56$

7. $x^2 - 4x + 1 = -3$

8. $x^2 - 4x - 19 = 13$

9. $x^2 - 8x + 13 = -2$

10. $x^2 - 18x + 45 = -36$

11. $x^2 - 7x + 9 = -3$

12. $x^2 - 5x - 24 = 12$

Résolution d'Équations Quadratiques (F) Réponses

Calculer les solutions des équations suivantes.

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

2. $x^2 - 15x + 29 = -25$
   $x^2 - 15x + 54 = 0$
   $(x - 6)(x - 9) = 0$
   $x = 6 \ , \ 9$

3. $x^2 - 9x + 6 = -12$
   $x^2 - 9x + 18 = 0$
   $(x - 6)(x - 3) = 0$
   $x = 6 \ , \ 3$

4. $x^2 - 10x + 10 = -14$
   $x^2 - 10x + 24 = 0$
   $(x - 6)(x - 4) = 0$
   $x = 6 \ , \ 4$

5. $x^2 - 13x + 12 = -24$
   $x^2 - 13x + 36 = 0$
   $(x - 4)(x - 9) = 0$
   $x = 4 \ , \ 9$

6. $x^2 - 25 = 56$
   $x^2 - 81 = 0$
   $(x + 9)(x - 9) = 0$
   $x = -9 \ , \ 9$

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

8. $x^2 - 4x - 19 = 13$
   $x^2 - 4x - 32 = 0$
   $(x + 4)(x - 8) = 0$
   $x = -4 \ , \ 8$

9. $x^2 - 8x + 13 = -2$
   $x^2 - 8x + 15 = 0$
   $(x - 5)(x - 3) = 0$
   $x = 5 \ , \ 3$

10. $x^2 - 18x + 45 = -36$
    $x^2 - 18x + 81 = 0$
    $(x - 9)(x - 9) = 0$
    $x = 9$

11. $x^2 - 7x + 9 = -3$
    $x^2 - 7x + 12 = 0$
    $(x - 3)(x - 4) = 0$
    $x = 3 \ , \ 4$

12. $x^2 - 5x - 24 = 12$
    $x^2 - 5x - 36 = 0$
    $(x - 9)(x + 4) = 0$
    $x = 9 \ , \ -4$