Solving Quadratic Equations (B)

Solve each equation for x

1. $x^2 - 10x + 6 = -18$

2. $x^2 - 3x - 23 = 31$

3. $x^2 + x - 34 = 38$

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

5. $x^2 + x - 24 = 6$

6. $x^2 + 7x - 3 = 5$

7. $x^2 + 13x + 32 = -8$

8. $x^2 + 2x - 10 = 25$

9. $x^2 - 6x - 11 = 5$

10. $x^2 - 4x - 3 = 18$

11. $x^2 - 2x - 2 = 22$

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

Solving Quadratic Equations (B) Answers

Solve each equation for x

1. $x^2 - 10x + 6 = -18$
   $x^2 - 10x + 24 = 0$
   $(x - 6)(x - 4) = 0$
   $x = 6 , 4$

2. $x^2 - 3x - 23 = 31$
   $x^2 - 3x - 54 = 0$
   $(x - 9)(x + 6) = 0$
   $x = 9 , -6$

3. $x^2 + x - 34 = 38$
   $x^2 + x - 72 = 0$
   $(x + 9)(x - 8) = 0$
   $x = -9 , 8$

4. $x^2 - 3x - 8 = 2$
   $x^2 - 3x - 10 = 0$
   $(x + 2)(x - 5) = 0$
   $x = -2 , 5$

5. $x^2 + x - 24 = 6$
   $x^2 + x - 30 = 0$
   $(x - 5)(x + 6) = 0$
   $x = 5 , -6$

6. $x^2 + 7x - 3 = 5$
   $x^2 + 7x - 8 = 0$
   $(x - 1)(x + 8) = 0$
   $x = 1 , -8$

7. $x^2 + 13x + 32 = -8$
   $x^2 + 13x + 40 = 0$
   $(x + 8)(x + 5) = 0$
   $x = -8 , -5$

8. $x^2 + 2x - 10 = 25$
   $x^2 + 2x - 35 = 0$
   $(x + 7)(x - 5) = 0$
   $x = -7 , 5$

9. $x^2 - 6x - 11 = 5$
   $x^2 - 6x - 16 = 0$
   $(x - 8)(x + 2) = 0$
   $x = 8 , -2$

10. $x^2 - 4x - 3 = 18$
    $x^2 - 4x - 21 = 0$
    $(x + 3)(x - 7) = 0$
    $x = -3 , 7$

11. $x^2 - 2x - 2 = 22$
    $x^2 - 2x - 24 = 0$
    $(x + 4)(x - 6) = 0$
    $x = -4 , 6$

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