Solving Quadratic Equations (B) by Factorising

Section A

Find the solutions to the following equations.

1) $(x + 2)(x + 3) = 0$ _____

2) $(4x + 3)(x – 3) = 0$ _____

3) $(2x – 5)(3x + 2) =$ _____

4) $(4x + 8)(2x – 8) = 0$ _____

5) $(5x – 15)(4x – 2) = 0$ _____

6) $(9x – 12)(5x + 20) = 0$ _____

Section B

Solve the following equations by factorising.

1) $x^2 + 8x + 15 = 0$ _____

2) $x^2 – 7x + 12 = 0$ _____

3) $x^2 + 2x – 15 = 0$ _____

4) $x^2 – 11x + 28 = 0$ _____

5) $x^2 – x – 30 = 0$ _____

6) $x^2 + 11x – 26 = 0$ _____

7) $x^2 – 5x – 24 = 0$ _____

8) $14 + x^2 + 9x = 0$ _____

9) $7 + x^2 – 8x = -25$ _____

10) $x^2 = 17x – 72$ _____

Solving Quadratic Equations (B) by Factorising

Section C

Factorise and then solve.

1) $x^2 - 9 = 0$ _____

2) $x^2 - 121 = 0$ _____

3) $x^2 - 49 = 0$ _____

4) $2x^2 - 128 = 0$ _____

5) $4x^2 - 64 = 0$ _____

6) $x^2 - 20 = 5$ _____

7) $x^2 - 101 = -1$ _____

8) $4x^2 - 17 = -1$ _____

9) $3x^2 - 16 = 227$ _____

10) $3x^2 - 55 = 53$ _____

Section D

Factorise and then solve.

1) $2x^2 + 15x + 25 = 0$ _____

2) $2x^2 - 7x - 15 = 0$ _____

3) $3x^2 + 14x - 24 = 0$ _____

4) $12x^2 - 28x - 5 = 0$ _____

5) $28x^2 - 85x + 63 = 0$ _____

6) $19x - 12 - 5x^2 = 0$ _____