

Exercises – Polynomial equations

1. $x^2 - x - 2 = 0$

2. $x^4 + 2x^3 + x^2 = 0$

3. $x^3 - x^2 - x + 1 = 0$

4. $3x^3 + 5x^2 + 2x = 0$

5. $16x^4 - 1 = 0$

6. $3x^3 + 5x^2 + 2x = 0$

7. $x^2 + 3x - 5 = x + 3$ Hint: Subtract $(x + 3)$ from both sides.

8. $3x^2 - 1 = x^2 + x$ Hint: Collect all terms to the left side.

9. $x^2 + x - 1 = 0$

10. $x^4 - 2x^3 + 2x^2 - 2x + 1 = 0$

11. $x^4 - 13x^2 + 36 = 0$

12. $4x^4 - 25x^2 + 36 = 0$