1. Find all the solutions to the equation: \(3x^3 - 8x^2 - 3x = 0\).

2. Solve \((x - 2)^2 + 8(x - 2) - 20 = 0\)

Solve the following polynomial questions with one of the following methods: factoring, square-root method, or Quadratic formula.

3. \((x - 4)^2 = -25\)
4. \(x^2 - 8x = 4\)

5. \(x^4 + 13x^2 + 36 = 0\)
6. \(x^2 - 8x + 41 = 0\)

7. Simplify: \(\frac{2+i}{4+3i}\)

8. True or False: \(i^{36} + i^5 - i^{25} + i^7 + i^{14} = i\)

9. A car rental agency charges a weekly rate of $250 for a car and an additional charge of 15 cents for each mile driven. How many miles can you travel in a week for $1000?

10. The length of a rectangle is 4 cm greater than its width. The area of the rectangle is 45 square centimeters. Find the length of the rectangle.

11. Solve \(\sqrt{4x + 5} = x\).