

Practice Test Chapter 2 (2.4-2.7)**NAME** _____

Add or Subtract the complex numbers

1. $4 + 3i + (-3 - 5i)$

2. $(-2 - 5i) - (-6 + 4i)$

Multiply the expression

3. $(5 + 4i)(7 - 2i)$

4. Rewrite the expression in complex form

$$\frac{4+4i}{3-5i}$$

5. Solve the equation

$$2x^2 = -128$$

6. Factor the expression

$$x^2 + 100$$

7. Solve $x^2 - 8x + 50 = 0$ by completing the square.

8. Solve $2x^2 + 10x - 3 = 0$ by completing the square.

9. Use the method of your choice to write the equation in Vertex Form

$$y = x^2 - 2x - 4$$

10. Solve the equation by using the quadratic formula

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

11. Solve the equation by using the quadratic formula

$$2x^2 - 3x - 5 = 0$$

12. Solve the equation by the method of your choice.

$$3x^2 + x - 10 = 0$$