

**Practice Problem 1: Write your answer in standard form**

$$\left(5-2i\right)+(3+3i)$$

**Practice Problem 2: Find the product and write your answer in standard form**

$$(5+4i)(6-7i)$$

**Practice Problem 3: Find the quotient and write your answer in standard form**

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

**Practice Problem 4: Perform the Indicated operation and write your answer in standard form**

$$\sqrt{-27}+\sqrt{-48}$$

$$(-2+\sqrt{-3})^{2}$$

$$\frac{-14+\sqrt{-12}}{2}$$

**Practice Problem 6: Solve using the quadratic equation**

$$x^{2}-2x+2=0$$

**Practice Problem 7: Graph the quadratic function** $f\left(x\right)=-\left(x-1\right)^{2}+4$ **by finding its vertex, y-intercept, x-intercept and which direction the graph opens**



**Practice Problem 8: Graph the quadratic function** $f\left(x\right)=\left(x-2\right)^{2}+1$ **by finding its vertex, y-intercept, x-intercept and which direction the graph opens**

