

## Multiplying Complex Numbers

Multiply. Write the answer in standard form.

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

Multiply. Write the answer in standard form.

$$(-3i)(10i)$$

Multiply. Write the answer in standard form.

$$(9 - 2i)(-4 + 7i)$$

Multiply. Write the answer in standard form.

$$(3 + i)(5 - i)$$

## Conjugate

$$(a + bi) \rightarrow$$

Multiply the complex number by its complex conjugate.

$$5 + 2i$$

Multiply the complex number by its complex conjugate.

$$1 + i$$

Multiply the complex number by its complex conjugate.

$$4 - 7i$$

## Complex Solutions and Zeros

Solve.

$$x^2 + 4 = 0$$



Solve.

$$2x^2 - 11 = -47$$

Find the zero.

$$4x^2 + 20 = 0$$