

Imaginary numbers were created to take the square root of a negative number.

The imaginary unit, i , is defined as...

$$i = \sqrt{-1}$$

$$\sqrt{-9}$$

$$\sqrt{-49}$$

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The imaginary unit, i , is defined as...

$$i = \sqrt{-1}$$

$$\sqrt{-18}$$

$$-\sqrt{-24}$$

Complex Number

is a number that can be written in the form $a + bi$

Real Part $\Rightarrow a + bi \Leftarrow$ Imaginary Part

$$2 + 5i$$

$$-6 - 2i$$

$$7i$$

$$-i$$

Find the values of x and y .

$$5x + 9i = 25 + (3y)i$$

$$3x - 5i = 6 - (10y)i$$

The complex conjugate of a complex number $a + bi$ is the complex number $a - bi$.

$$a + bi \quad a - bi$$

(change the sign of b)

Find the complex conjugate.

$$5 + 3i$$

$$2i - 4$$

$$-4i + 8$$

$$4i$$