

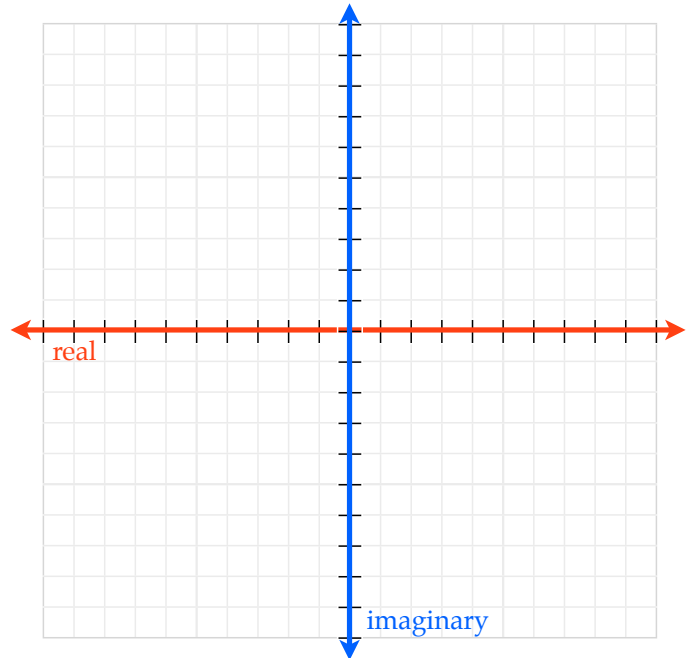
Complex Numbers

real part $\Rightarrow a + bi \Leftarrow$ imaginary part

The Complex Plane

Horizontal number line - real axis

Vertical number line - imaginary axis



Complex Numbers

real part $\Rightarrow a + bi \Leftarrow$ imaginary part

The Complex Plane

Horizontal number line - real axis

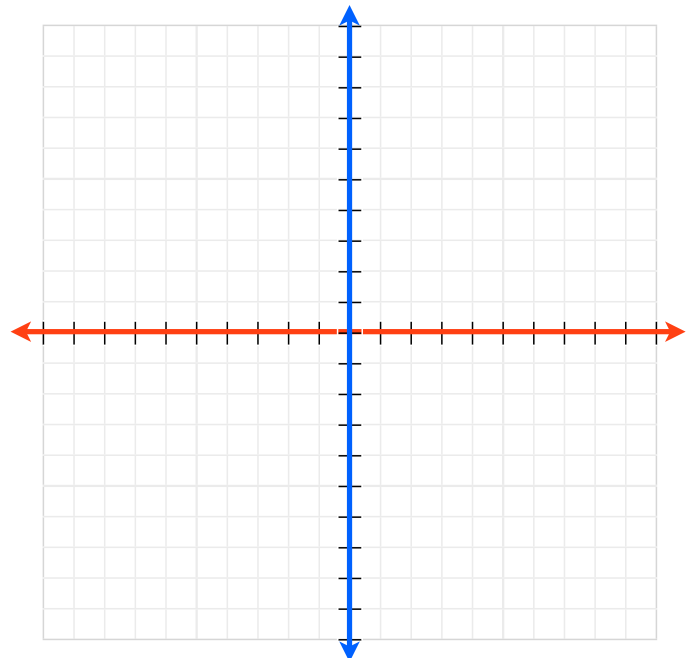
Vertical number line - imaginary axis

$$1 + 5i$$

$$-6 + 2i$$

$$-3i$$

$$3 - 2i$$

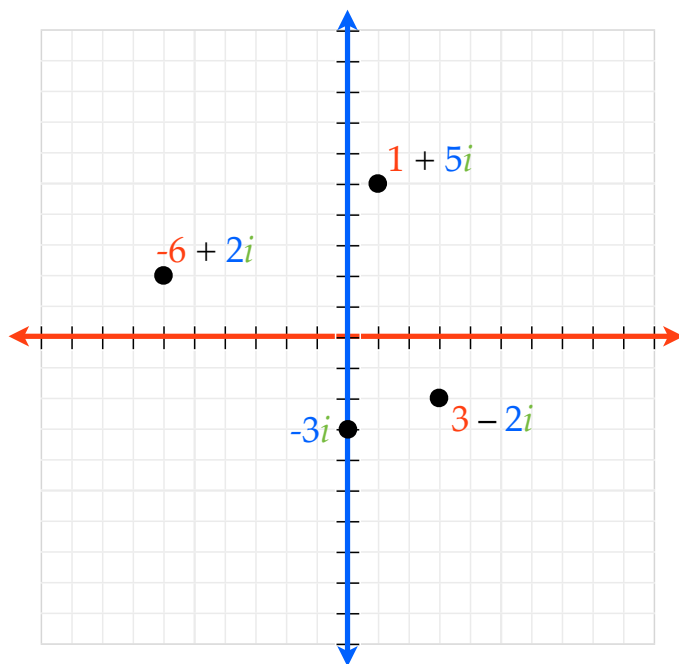


The Absolute Value of a Complex Number

Its distance from the origin (0,0)

$$|a + bi| = \sqrt{a^2 + b^2}$$

$$|1 + 5i|$$

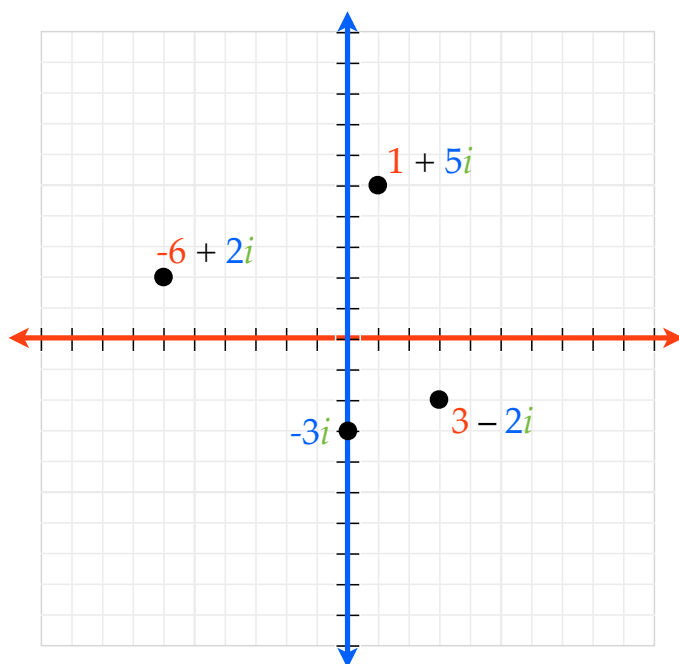


The Absolute Value of a Complex Number

Its distance from the origin (0,0)

$$|a + bi| = \sqrt{a^2 + b^2}$$

$$|-6 + 2i|$$

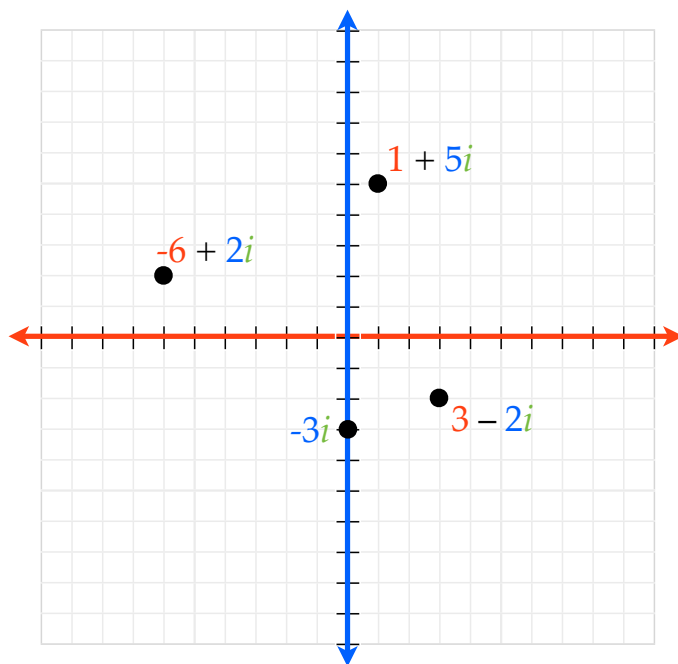


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Its distance from the origin (0,0)

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$$|3 - 2i|$$

