

Algebra II – Answer Key

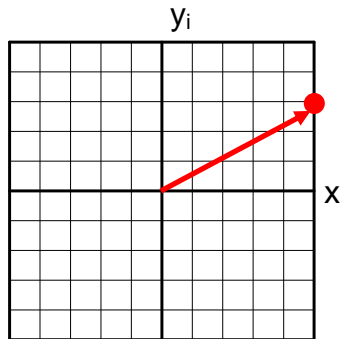
Graphing and Absolute Value of Complex Numbers

Check for understanding 3103.2.7 – Graph complex numbers in the complex plane and recognize differences and similarities with the graphical representations of real numbers graphed on the number line.

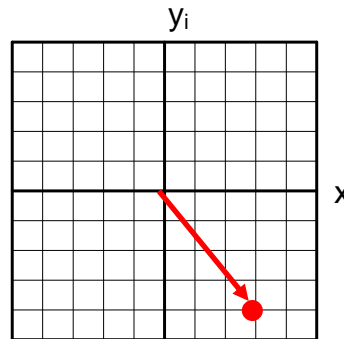
Check for understanding 3103.2.9 Find and describe geometrically the absolute value of a complex number.

Graph each of the following complex numbers.

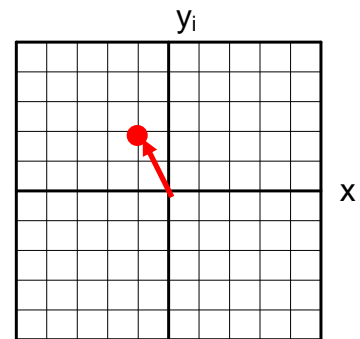
1. $5 + 3i$



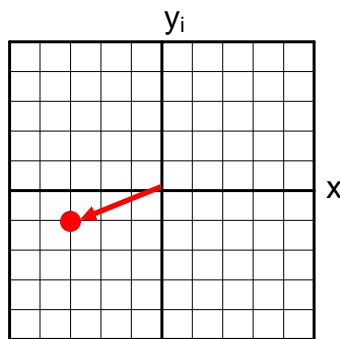
2. $3 - 4i$



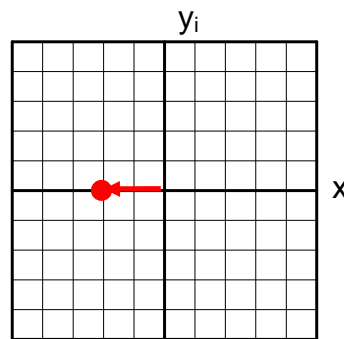
3. $-1 + 2i$



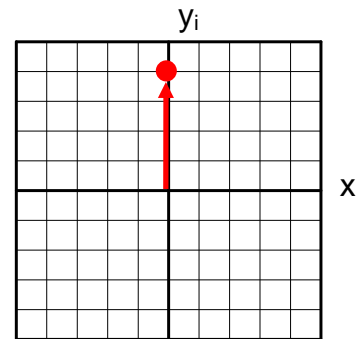
4. $-3 - i$



5. -2



6. $4i$



Find the absolute value of each of the complex numbers in problems 1-6 above.

7. absolute value of #1

$$\sqrt{34}$$

8. absolute value of #2

$$5$$

9. absolute value of #3

$$\sqrt{5}$$

10. absolute value of #4

$$\sqrt{10}$$

11. Absolute value of #5

$$2$$

12. Absolute value of #6

$$4$$