Properties of Complex Numbers

Find the absolute value of each complex number.

1)
$$\left| 7 - i \right|$$

2)
$$|-5-5i|$$

3)
$$\left| -2 + 4i \right|$$

4)
$$|3-6i|$$

5)
$$\left| 10 - 2i \right|$$

6)
$$\left| -4 - 8i \right|$$

7)
$$|-4-3i|$$

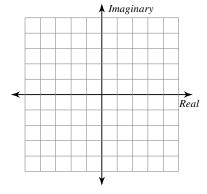
8)
$$\left| 8 - 3i \right|$$

9)
$$|1 - 8i|$$

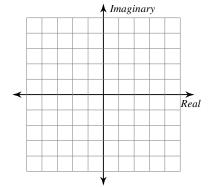
10)
$$\left| -4 + 10i \right|$$

Graph each number in the complex plane.

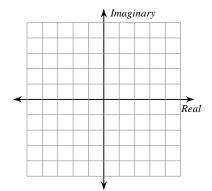
11) -3 + 4i



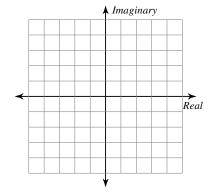
12)
$$-1 + 5i$$



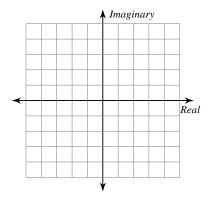
13)
$$-1 - 4i$$



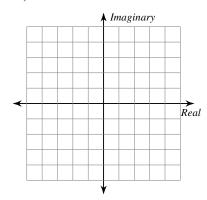
14)
$$4 + 4i$$



15) -3 + 5i

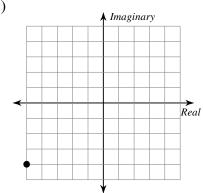


16) 2 + 4i

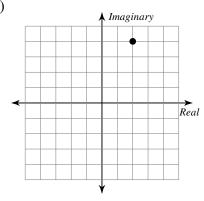


Identify each complex number graphed.

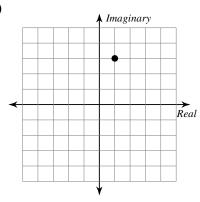
17)



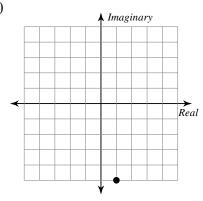
18)



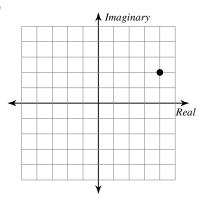
19)



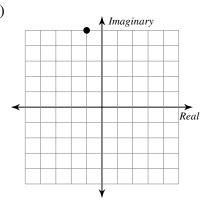
20)



21)



22)



Properties of Complex Numbers

Find the absolute value of each complex number.

1)
$$\left| 7 - i \right|$$

$$5\sqrt{2}$$

3)
$$\left| -2 + 4i \right|$$

$$2\sqrt{5}$$

$$5) |10 - 2i|$$

$$2\sqrt{26}$$

7)
$$\left| -4 - 3i \right|$$

9)
$$\left|1 - 8i\right|$$
 $\sqrt{65}$

$$2) \left| -5 - 5i \right|$$

$$5\sqrt{2}$$

$$4) |3-6i|$$

$$3\sqrt{5}$$

6)
$$\left| -4 - 8i \right|$$

$$8) \left| 8 - 3i \right|$$

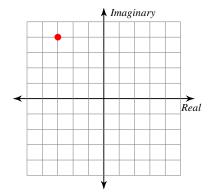
$$\sqrt{73}$$

$$10) \left| -4 + 10i \right|$$

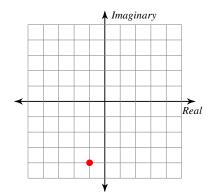
$$2\sqrt{29}$$

Graph each number in the complex plane.

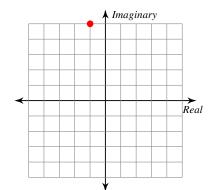
11)
$$-3 + 4i$$



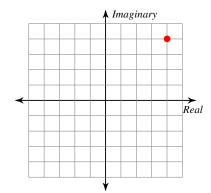
13)
$$-1 - 4i$$



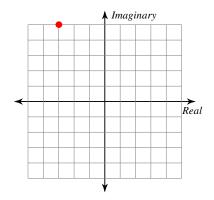
12) -1 + 5i



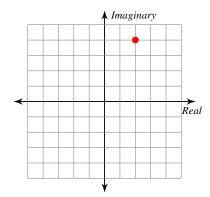
14)
$$4 + 4i$$



15) -3 + 5i

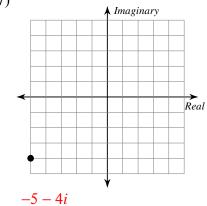


16) 2 + 4i

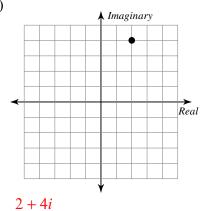


Identify each complex number graphed.

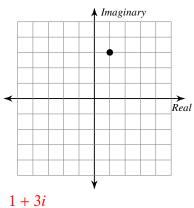
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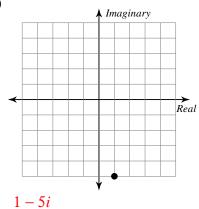
18)



19)

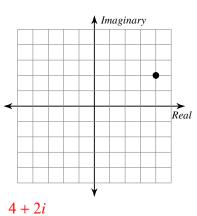


20)

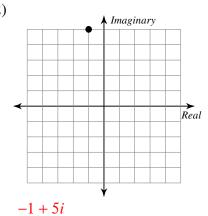


1+,

21)



22)



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