

Properties of Complex Numbers

Find the absolute value of each complex number.

1) $|7 - i|$

2) $|-5 - 5i|$

3) $|-2 + 4i|$

4) $|3 - 6i|$

5) $|10 - 2i|$

6) $|-4 - 8i|$

7) $|-4 - 3i|$

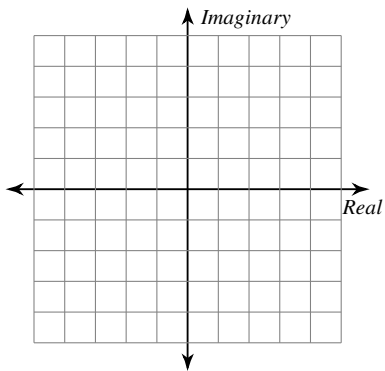
8) $|8 - 3i|$

9) $|1 - 8i|$

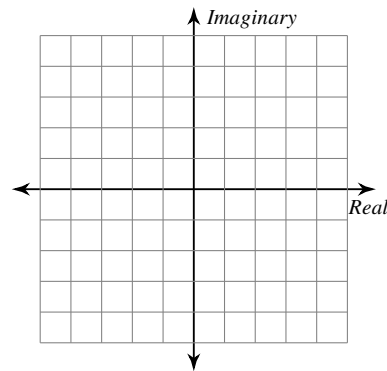
10) $|-4 + 10i|$

Graph each number in the complex plane.

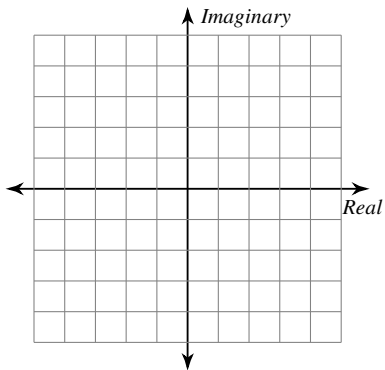
11) $-3 + 4i$



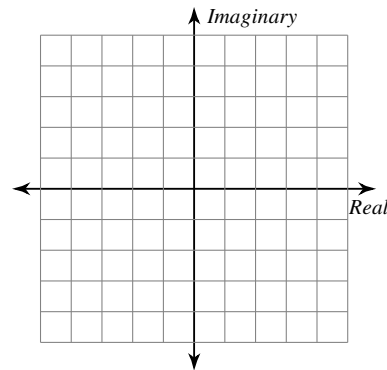
12) $-1 + 5i$



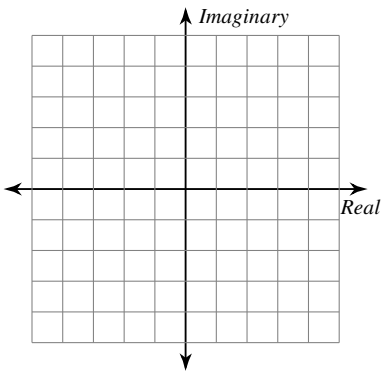
13) $-1 - 4i$



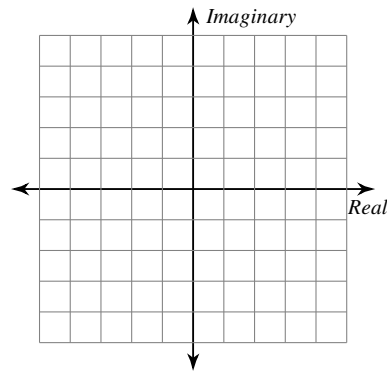
14) $4 + 4i$



15) $-3 + 5i$

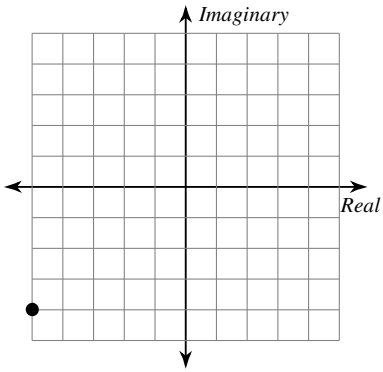


16) $2 + 4i$

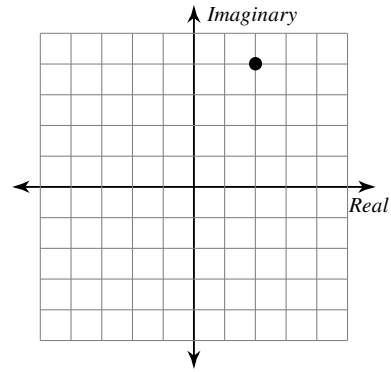


Identify each complex number graphed.

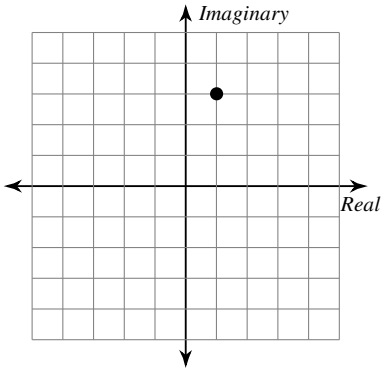
17)



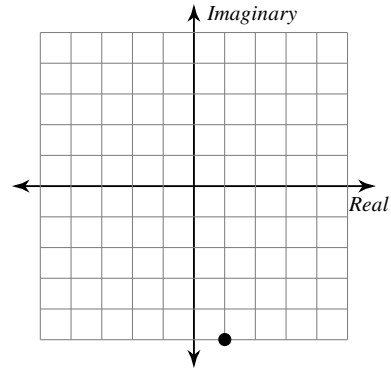
18)



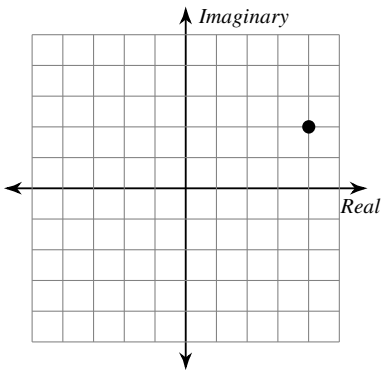
19)



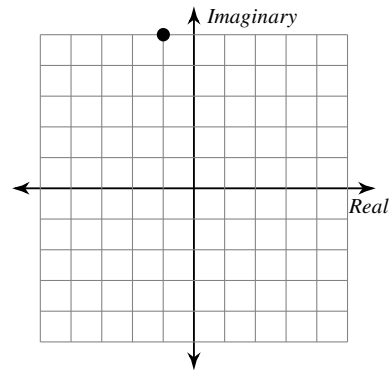
20)



21)



22)



Properties of Complex Numbers

Find the absolute value of each complex number.

$$1) |7 - i|$$

$$5\sqrt{2}$$

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

$$5\sqrt{2}$$

$$3) |-2 + 4i|$$

$$2\sqrt{5}$$

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

$$3\sqrt{5}$$

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

$$2\sqrt{26}$$

$$6) |-4 - 8i|$$

$$4\sqrt{5}$$

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

$$5$$

$$8) |8 - 3i|$$

$$\sqrt{73}$$

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

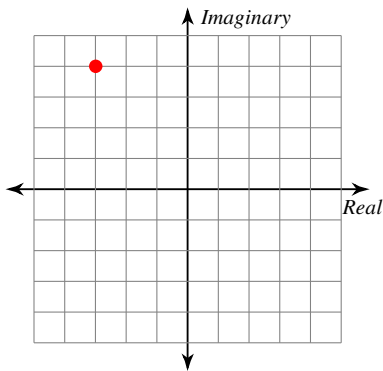
$$\sqrt{65}$$

$$10) |-4 + 10i|$$

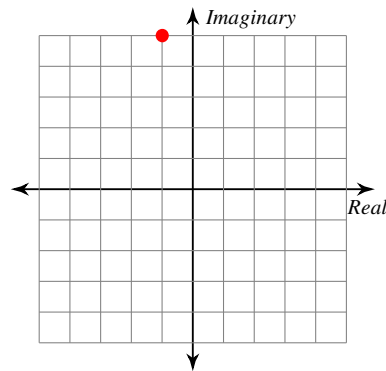
$$2\sqrt{29}$$

Graph each number in the complex plane.

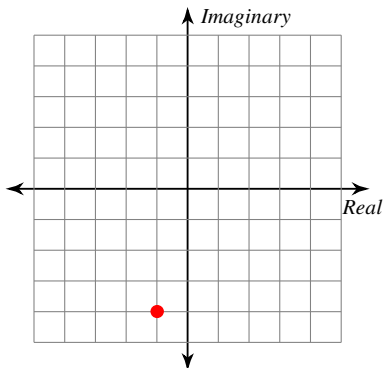
$$11) -3 + 4i$$



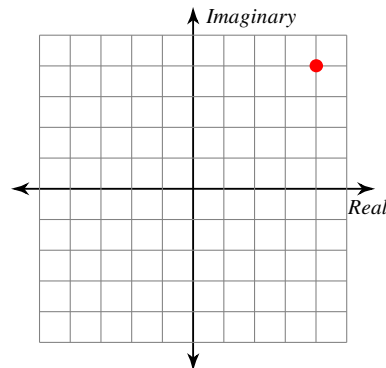
$$12) -1 + 5i$$



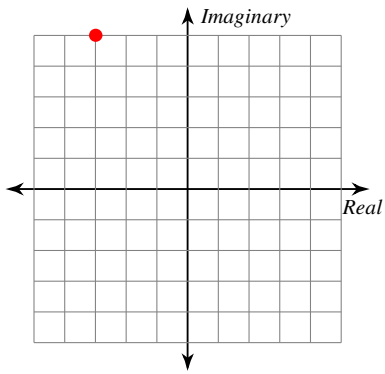
$$13) -1 - 4i$$



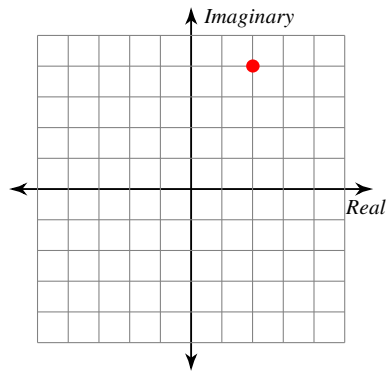
$$14) 4 + 4i$$



15) $-3 + 5i$

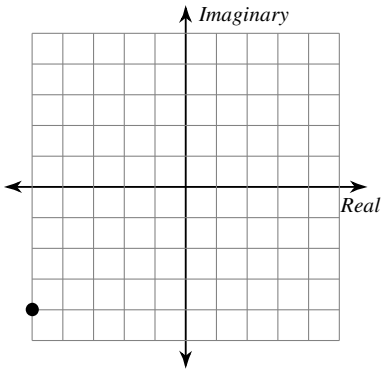


16) $2 + 4i$



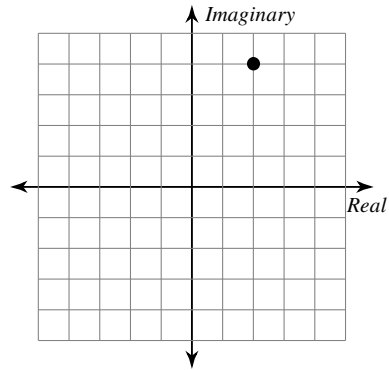
Identify each complex number graphed.

17)



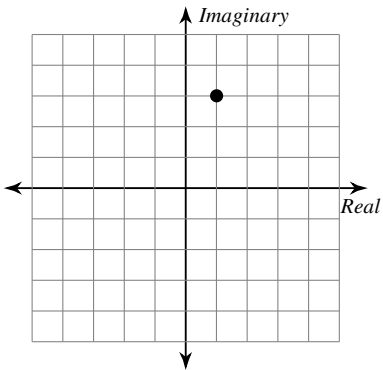
$-5 - 4i$

18)



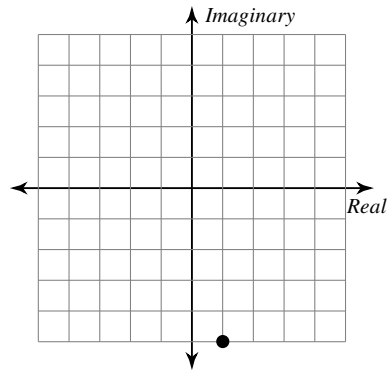
$2 + 4i$

19)



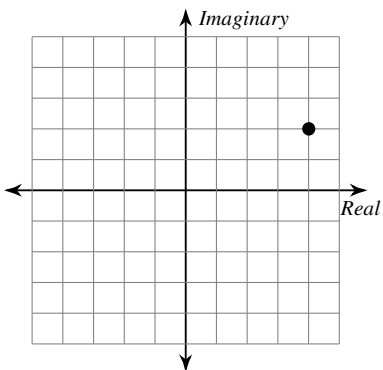
$1 + 3i$

20)



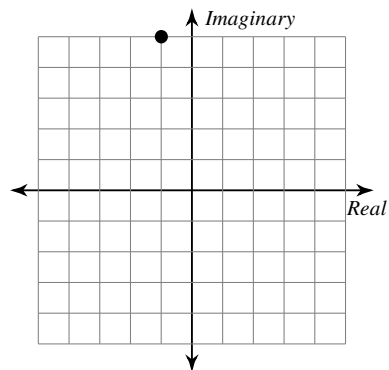
$1 - 5i$

21)



$4 + 2i$

22)



$-1 + 5i$