

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) $|-4 - 3i|$

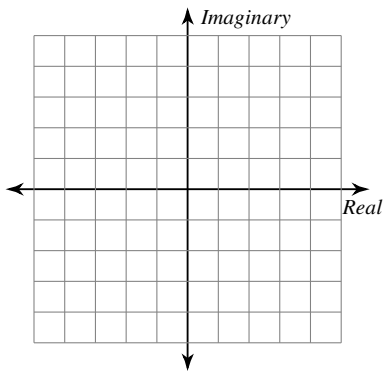
8) $|8 - 3i|$

9) $|1 - 8i|$

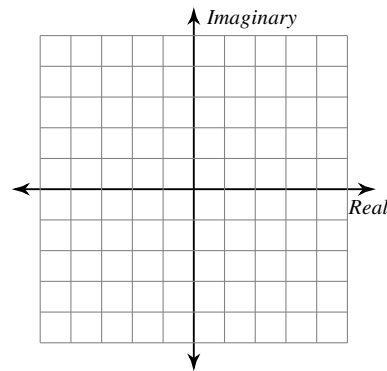
10) $|-4 + 10i|$

Graph each number in the complex plane.

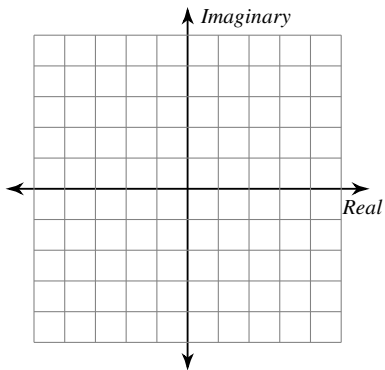
11) $-3 + 4i$



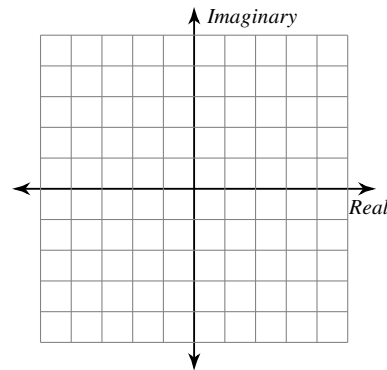
12) $-1 + 5i$



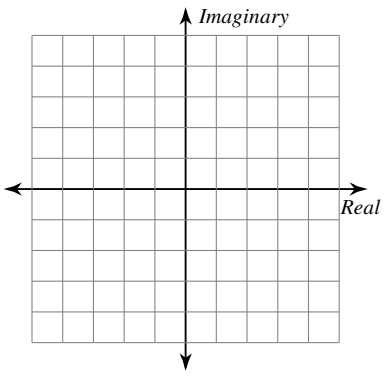
13) $-1 - 4i$



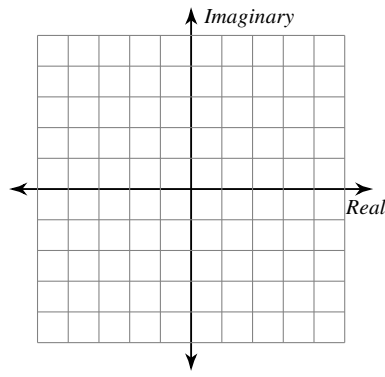
14) $4 + 4i$



15) $-3 + 5i$

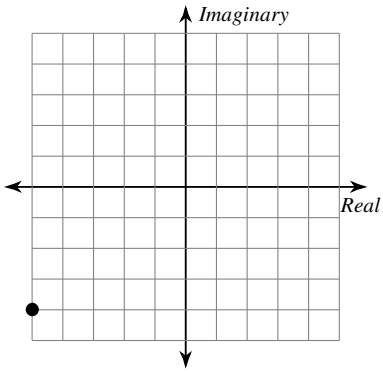


16) $2 + 4i$

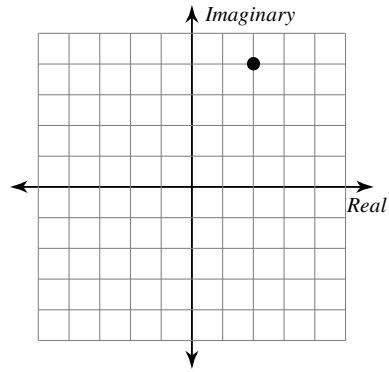


Identify each complex number graphed.

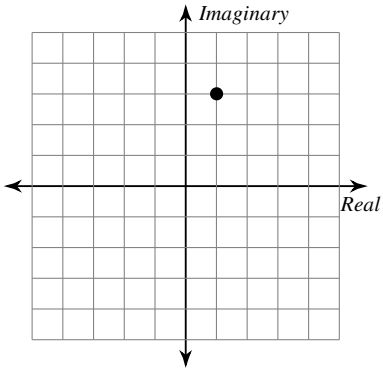
17)



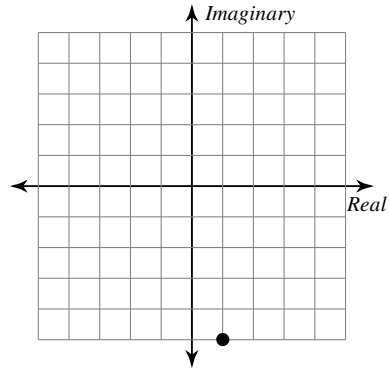
18)



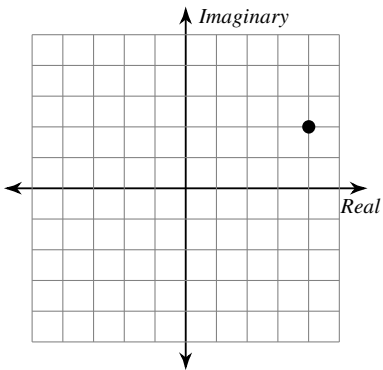
19)



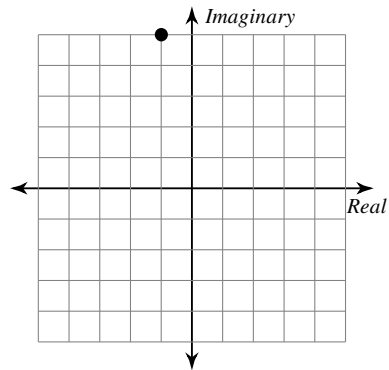
20)



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) $|1 - 8i|$

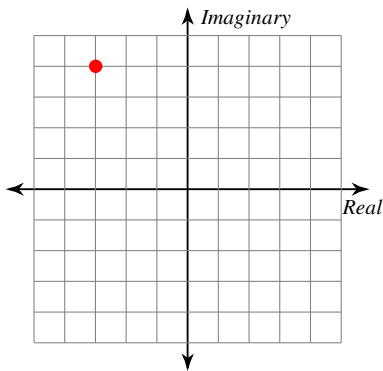
$\sqrt{65}$

10) $|-4 + 10i|$

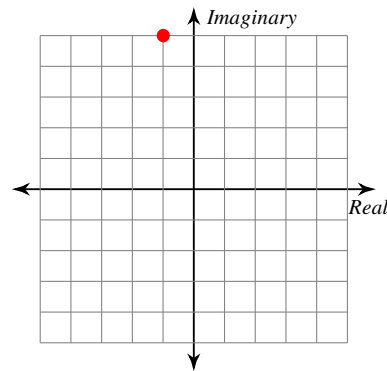
$2\sqrt{29}$

Graph each number in the complex plane.

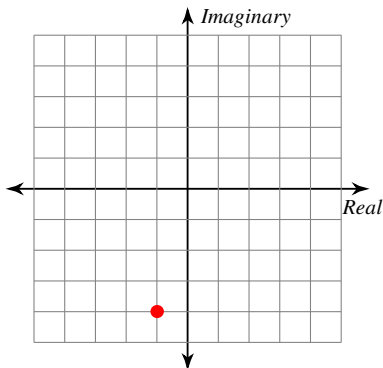
11) $-3 + 4i$



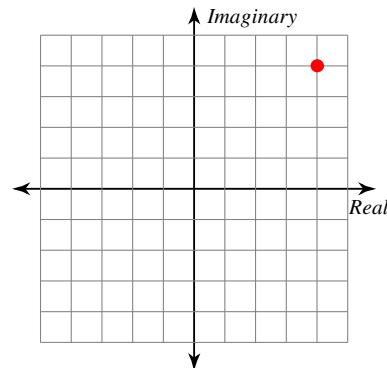
12) $-1 + 5i$



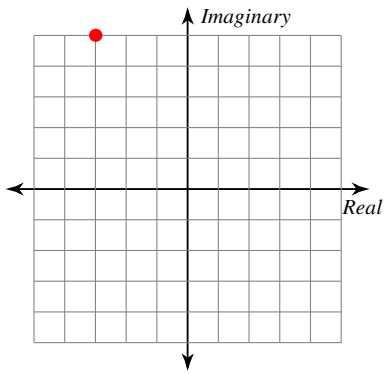
13) $-1 - 4i$



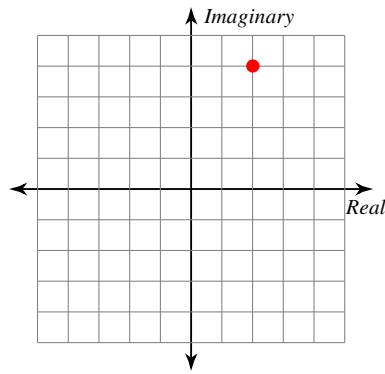
14) $4 + 4i$



15) $-3 + 5i$

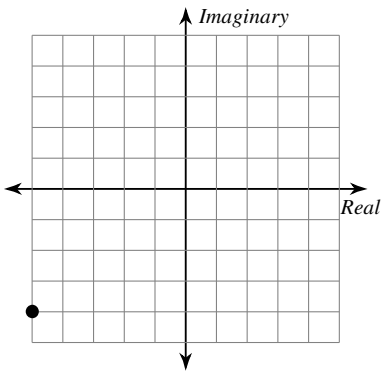


16) $2 + 4i$



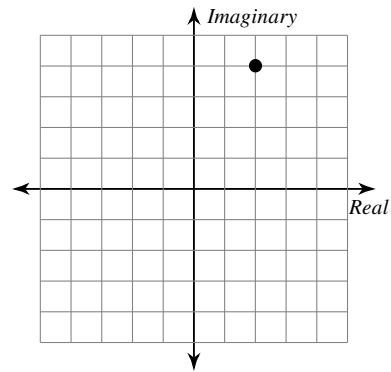
Identify each complex number graphed.

17)



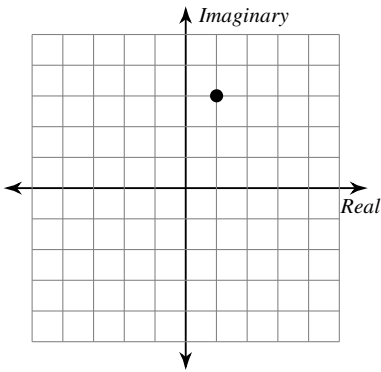
$-5 - 4i$

18)



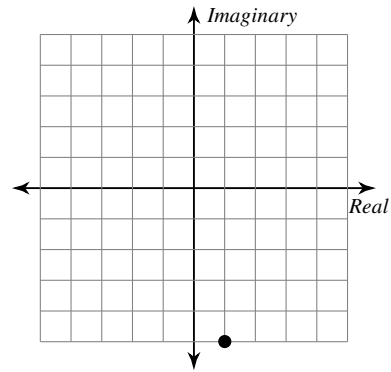
$2 + 4i$

19)



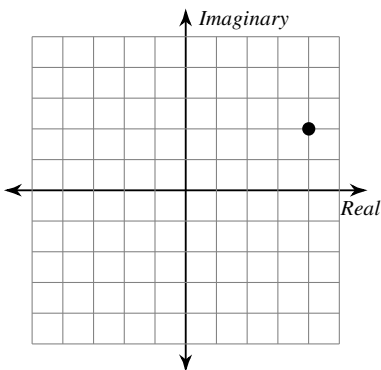
$1 + 3i$

20)



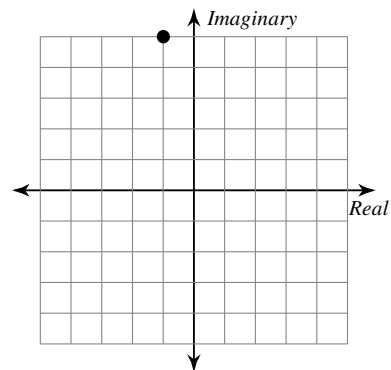
$1 - 5i$

21)



$4 + 2i$

22)



$-1 + 5i$