

Properties of Complex Numbers

Date _____ Period _____

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) $|-4 - 3i|$

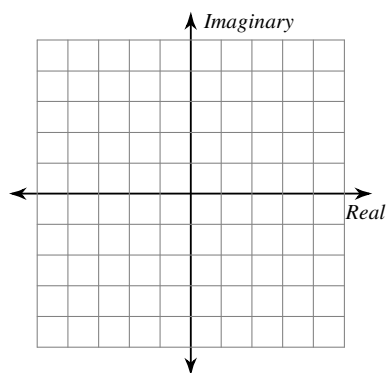
8) $|8 - 3i|$

9) $|1 - 8i|$

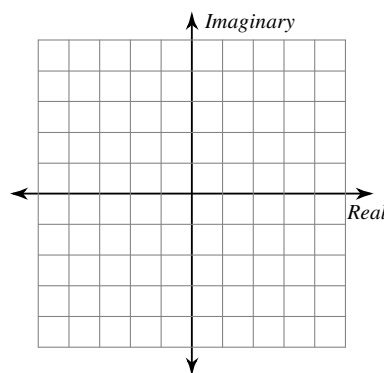
10) $|-4 + 10i|$

Graph each number in the complex plane.

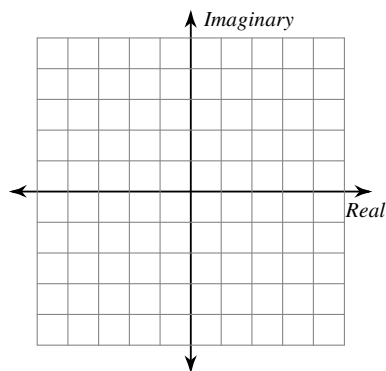
11) $-3 + 4i$



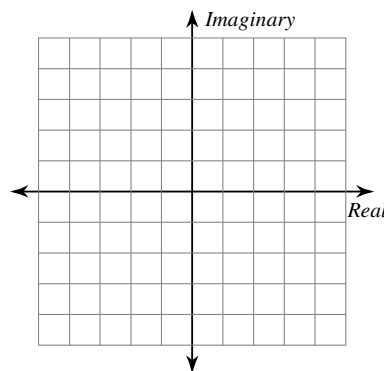
12) $-1 + 5i$



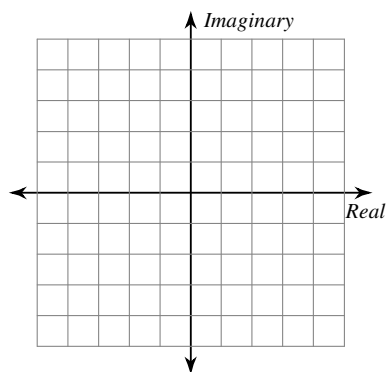
13) $-1 - 4i$



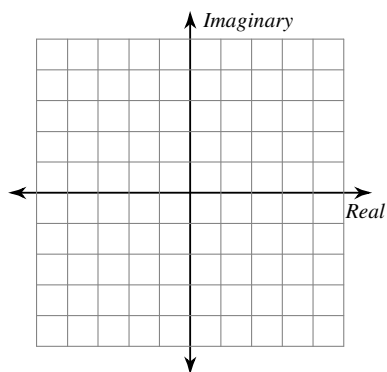
14) $4 + 4i$



15) $-3 + 5i$

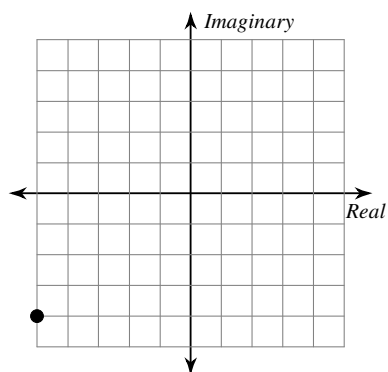


16) $2 + 4i$

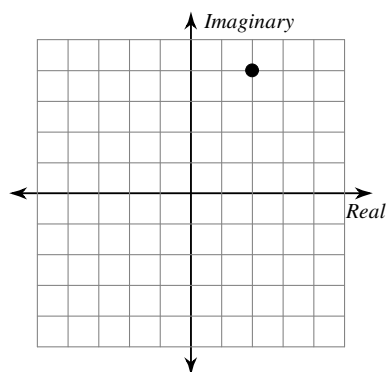


Identify each complex number graphed.

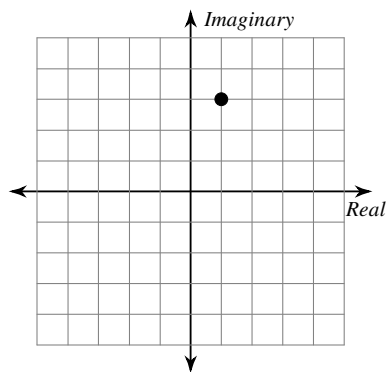
17)



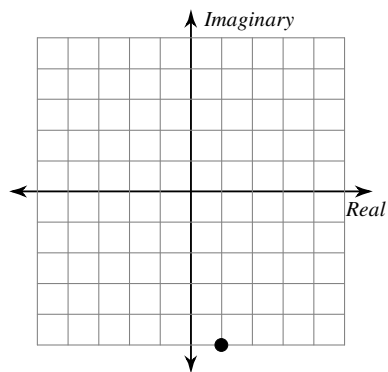
18)



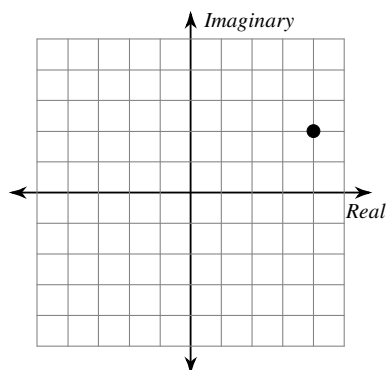
19)



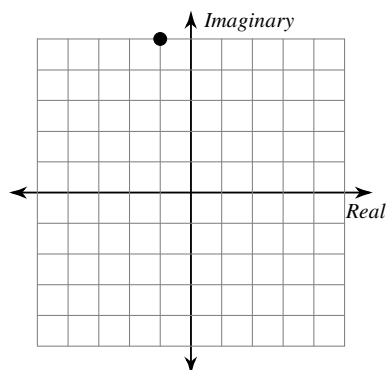
20)



21)



22)



Properties of Complex Numbers

Date _____ Period _____

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

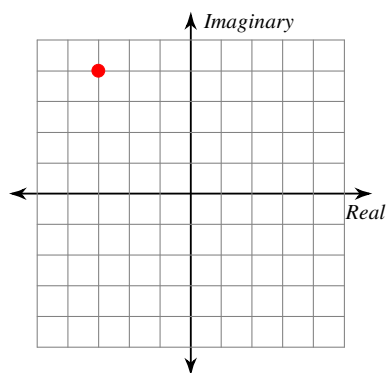
8) $|8 - 3i|$
 $\sqrt{73}$

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

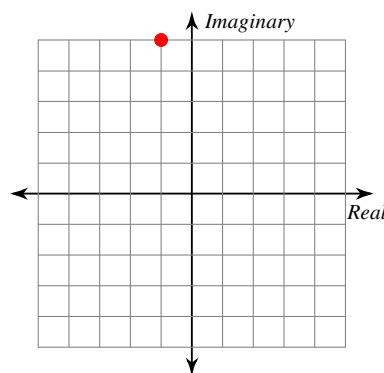
10) $|-4 + 10i|$
 $2\sqrt{29}$

Graph each number in the complex plane.

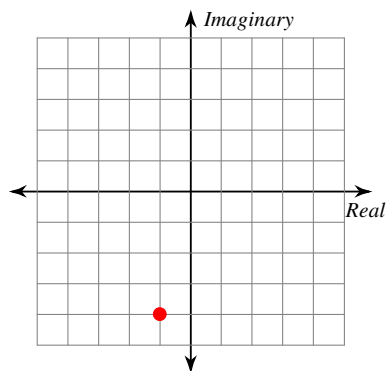
11) $-3 + 4i$



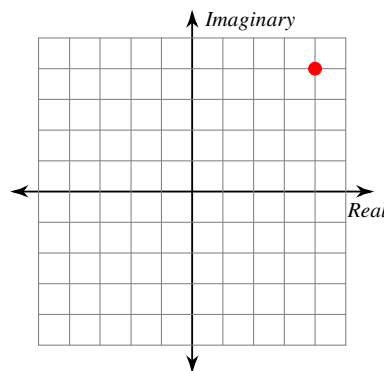
12) $-1 + 5i$



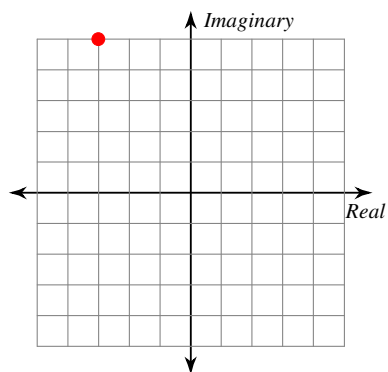
13) $-1 - 4i$



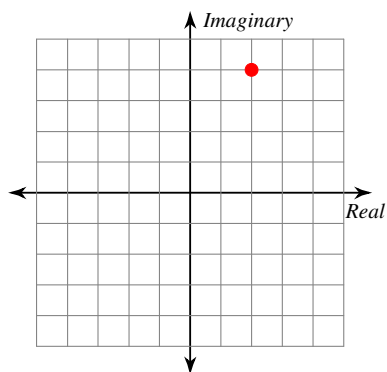
14) $4 + 4i$



15) $-3 + 5i$

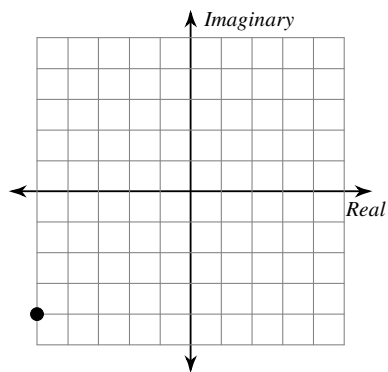


16) $2 + 4i$



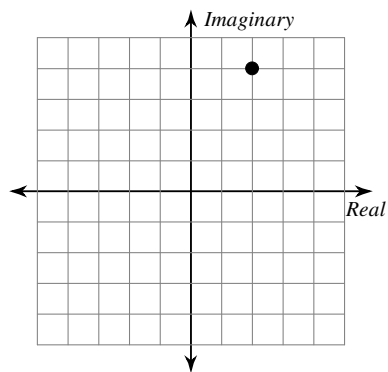
Identify each complex number graphed.

17)



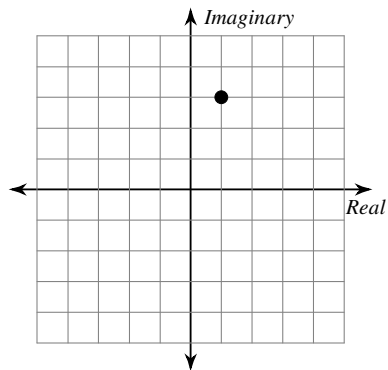
$-5 - 4i$

18)



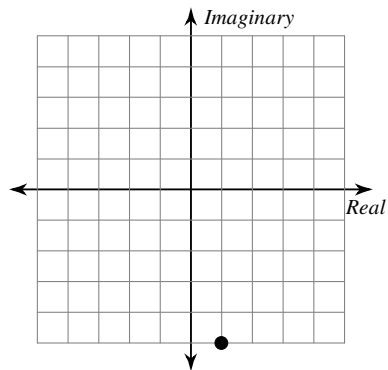
$2 + 4i$

19)



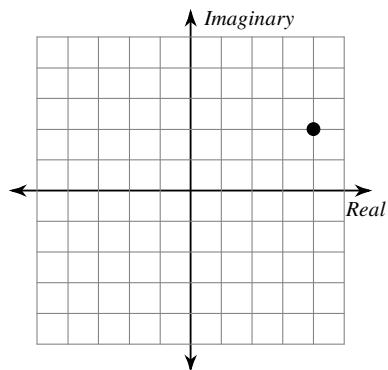
$1 + 3i$

20)



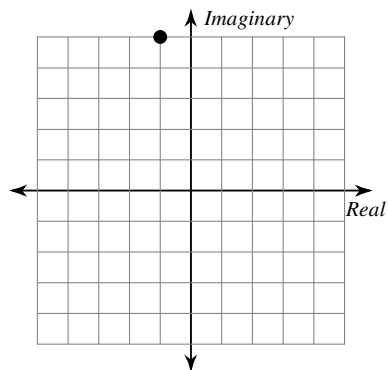
$1 - 5i$

21)



$4 + 2i$

22)



$-1 + 5i$