

Assignment-Imaginary Numbers

Date _____

Simplify.

1) $\frac{10 - 9i}{3 + 4i}$

2) $\frac{5i}{-1 - 3i}$

3) $(6 - 6i)(-4 - 7i)$

4) $(-4i)(8i)(-5 + 8i)$

Find the absolute value of each complex number.

5) $| -1 + 2i |$

6) $| -4 - 3i |$

Simplify.

7) $\frac{-4}{-7i}$

8) $\frac{-7 + 9i}{10i}$

9) $(-3i)(8 + i)(8 + i)$

10) $(2 - 4i)(-1 + 2i)(5 + 3i)$

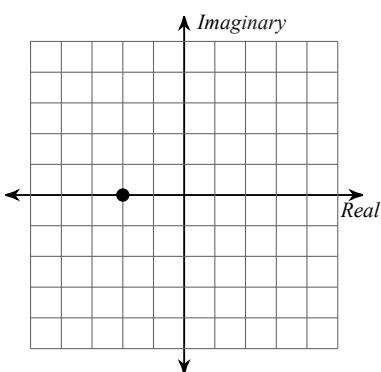
Graph each number in the complex plane.

11) $1 - 4i$

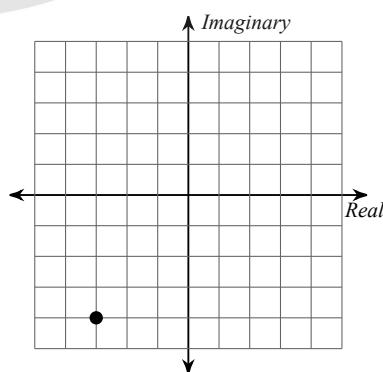
12) $-3 - i$

Identify each complex number graphed.

13)



14)



Answers to Assignment-Imaginary Numbers

1) $\frac{-6 - 67i}{25}$

5) $\sqrt{5}$

9) $48 - 189i$

2) $\frac{-i - 3}{2}$

6) 5

10) $6 + 58i$

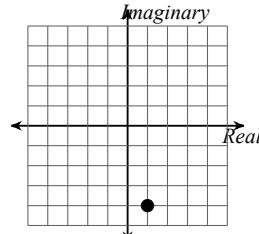
3) $-66 - 18i$

7) $-\frac{4i}{7}$

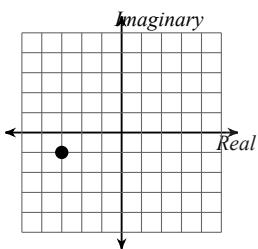
11)

4) $-160 + 256i$

8) $\frac{7i + 9}{10}$



12)



13) -2

14) $-3 - 4i$ 