

Name: _____ Date: _____ Class: _____

SECTION 5-9 QUIZ B

Identify the quotient in the form $a + bi$.

$$\frac{1 + 2i}{1 - 2i}$$

- $1 + \frac{4}{5}i$
 - $1 + \frac{6}{5}i$
 - $-\frac{3}{5} + \frac{4}{5}i$
 - $-\frac{3}{5} + \frac{6}{5}i$
-

Identify the difference in the form $a + bi$.

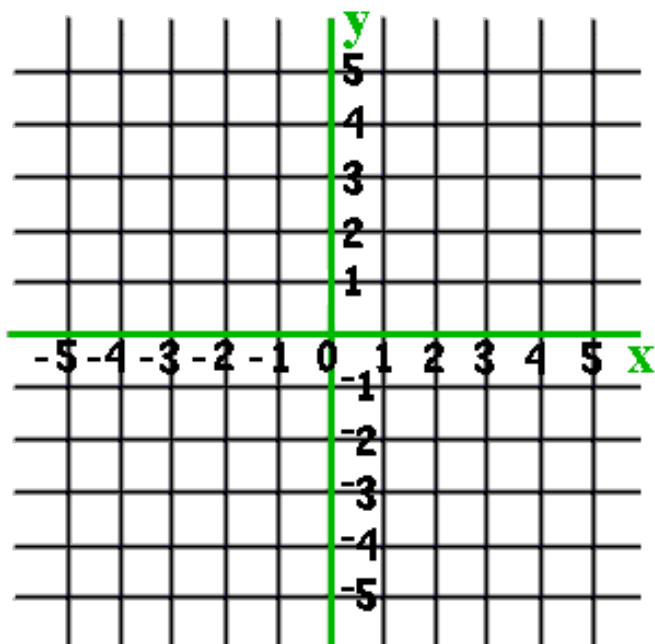
$$(4 - i) - (-1 - 2i)$$

- $3 - 3i$
- $3 + i$
- $5 + i$
- $5 - 3i$

Find $|-3 + 6i|$.

- $3i$
 - $\sqrt{45}$
 - $i\sqrt{18}$
 - 45
-

Identify the graph for the complex number $3 + 5i$.



*****EXTRA CREDIT*****

Simplify.

$$3i^{23}$$

- -3
- 3
- $3i$
- $-3i$