

First Quiz  
February 7, 2013

Name: \_\_\_\_\_

1. Evaluate each of the following expressions:

(a)  $-6^2 - 4(5 - 2 \cdot 7)$

(b)  $7 - (3 - 16 \div 8 \cdot 2)$

(c)  $\frac{3 \cdot 5 - 3(7 - 5)^2 + 2^3}{2(-3) - (-2)^4}$

2. Evaluate the expression  $x^2 - 2xy + y^2$ , when  $x = 3$  and  $y = -2$ .

3. Evaluate the expression

$$\frac{-x^2 + 3}{2 - x}$$

when  $x = -2$ .

A.  $\frac{1}{4}$

B.  $-\frac{1}{4}$

C.  $\frac{12}{5}$

D.  $-12$

For the following statements indicate whether they are true or false:

4. If  $x = \frac{1}{2}$  and  $y = -\frac{2}{3}$ , then  $4x + 6y = -2$

A. True

B. False.

5. If  $x = -2$  and  $y = 4$ , then  $x^2 + y = y^2 + 3x - 1$

A. True

B. False.