

## Review Practice

Name \_\_\_\_\_

*To receive credit, you must show your work.*

1. Evaluate WITHOUT a calculator.

a.  $12 + 2 * 3$

b.  $5 + 2(3 + 2^2)$

c.  $-3^2 + 5 + 4 * 2$

d.  $-5 - (-4) + (-10) - (-2)(3)$

e.  $12 \div 4 * 3 - 5$

f.  $3[5 + 6(7 - 3) + 7]$

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2. Simplify by combining like terms.

a.

$$3a^2 - 2b^2 - 7a^2 - 3b^2$$

b.

$$\frac{1}{5}ab^2 - \frac{3}{10}ab^2 + \frac{2}{5}ab^2 + \frac{7}{10}ab^2$$

c.

$$3(2u^2 + 1) + 4(u^2 - 5)$$

d.

$$3(2x - 3y) - 4(3x + 5y) - x$$

e.

$$-5(x^2 - 4) - 2(3x^2 + 6) + (2x^2 - 1)$$

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3. Translate each English phrase into an algebraic expression.

a. Four increased by twice a number

b. Six less than two-thirds of a number

c. Ten times the difference of a number and 14

d. Eight subtracted from the quotient of a number and seven

e. The quotient of a number and three less than the number

4. What is your major?

5. What is the highest math class you need to take?

6. What is the highest math class you want to take?