

Warm-up

The sum of twice a number and 7

A.  $2(x + 7)$

B.  $2x + 7$

C.  $2(x - 7)$

D.  $2x - 7$

Five less than three-fourths of a number.

A.  $5 - \frac{3}{4}x$

B.  $\frac{3}{4}(5 - x)$

C.  $\frac{3}{4}(x - 5)$

D.  $\frac{3}{4}x - 5$

Twice the sum of a number and five.

A.  $2(x + 5)$

B.  $2x + 5$

C.  $2(x - 5)$

D.  $2x - 5$

The square of a number decreased by six.

A.  $6 - 2x$

B.  $6 - x^2$

C.  $2x - 6$

D.  $x^2 - 6$

## Warm-up

1.  $7x + 12 + 4x^2$

a. Write the polynomial in standard form. \_\_\_\_\_

b. What is the leading coefficient of the polynomial? \_\_\_\_\_

c. What is the degree of the polynomial? \_\_\_\_\_

d. What is the classification by degree of the polynomial? \_\_\_\_\_

e. What is the special name of this polynomial (3 terms)? \_\_\_\_\_

### **Add or subtract the polynomials:**

2.  $(2x - 5) + (x + 4)$

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

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

### **Multiply**

5.  $3(x + 2)$

6.  $4x^3(x^3 + 8)$

7.  $3x(x^3 + 5x + 6)$

8.  $(2x - 3)(x - 7)$