

**9-1 Skills Practice: Add and Subtract Polynomials****Alg 1**

1. Write the polynomial so that the exponents decrease from left to right. Identify the degree and leading coefficient of the polynomial.

a.  $4n^5$

b.  $4x - 2x^2 + 3$

c.  $6y^3 - 2y^2 + 4y^4 - 5$

2. Tell whether the expression is a polynomial. If it is a polynomial, find its degree and classify it by the number of its terms. Otherwise, tell why it is not a polynomial.

a.  $10^x$

b.  $-6n^2 - n^3 + 4$

c.  $w^{-3} + 5$

3. Find the sum or difference.

a.  $(3z^2 + z - 4) + (2z^2 + 2z - 3)$

b.  $(8c^2 - 4c + 1) + (-3c^2 + c + 5)$

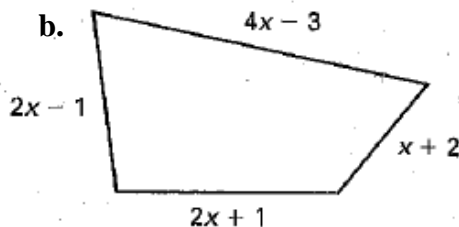
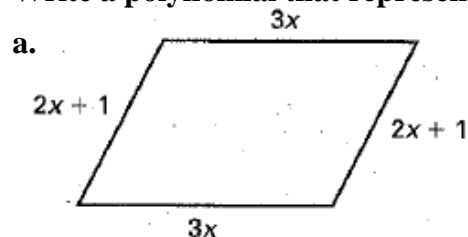
c.  $(2x^2 + 5x - 1) + (x^2 - 5x + 7)$

d.  $(10b^2 - 3b + 2) - (4b^2 + 5b + 1)$

e.  $(-4m^2 + 3m - 1) - (m + 2)$

f.  $(3m + 4) - (2m^2 - 6m + 5)$

4. Write a polynomial that represents the perimeter of the figure.



5. The first floor of a home has the floor plan shown. Find the area of the first floor.

