Pg. A23 0.3A – Polynomials and Factoring

Ex 1:
(a) Write the polynomial in standard form, **(b)** identify the degree and leading coefficient of the polynomial, and **(c)** state whether the polynomial is a monomial, a binomial, or a trinomial.

$-y+25y^2+1$

Ex 2:
Determine whether the expression is a polynomial. If so, write the polynomial in standard form.

Note: Polynomials have variable exponents that are natural numbers.

$2x^3+x-3x^{-1}$

Ex 3:
Perform the operation and write the result in standard form.

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

Ex 4:
Multiply or find the special product.

(a) $(x-5)(x+10)$ **(b)** $(4x+5)^2$

(c) $(3x+2y)^3$

Method 1 **Method 2**

Ex 5:

Find a polynomial that represents the total number of square feet for the floor plan shown in the figure.