1. Determine the coefficient of each term, the degree of each term, and the degree of the polynomial.

$$12x^4y - 5x^3y^7 - x^2 + 4$$

Term	Coefficient	Degree

Degree of the polynomial: _____

2. Add: $(6x^2 - 3x + 7) + (-2x^2 + 3x - 11)$

3. Subtract: $(5x^4y^2 + 6x^3y - 7y) - (3x^4y^2 - 5x^3y - 6y + 8x)$

4. Simplify: $(3x^3 + 7x^2 - 2x) + (5x^3 - 2x^2 + 8x) - (-2x^3 + 6x^2 + 1)$

5. Multiply.

a)
$$-5xy(8x + 3y - 2x^2y^3)$$

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

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

d)
$$(3x + 4y)^2$$

e)
$$(5xy^2 - xy)^2$$

f)
$$(3x + 2)(3x - 2)$$

g)
$$(x+5)^3$$

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