

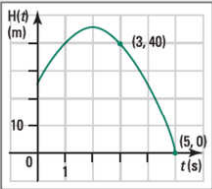
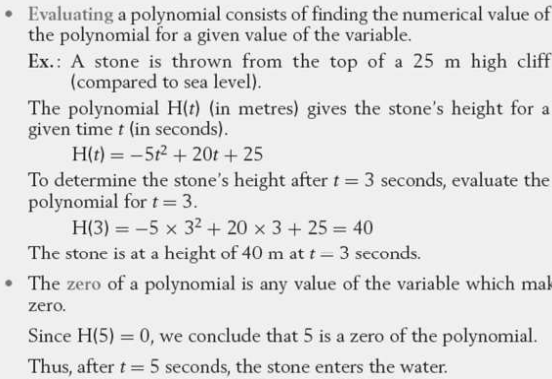
L3 Polynomial Basics

Refer to second half of the Handout: “Algebraic Expressions”, for definitions.

A **POLYNOMIAL** is the sum or difference of many unlike **MONOMIALS**.

Write the terms in decreasing order of degrees.

Ex: $12x^7 + 6x^4 - 7x^2 + 7$



$P(x)$ is just the notation to name the polynomial

Ex 1: Simplify:

$$P(x) = 2x^2 + 5x^3 + 3x + 6 + 3x + 4x^2 + 7 - 5x^3$$

Ex 2: Evaluate the above trinomial for $x = 2$
(ie. Evaluate $P(2)$)
 $P(2) =$

Ex 3: Rewrite each polynomial and give its degree.

a) $4xy^2 + 3x^2y^2$ b) $2 - 5y^2 + 6y$

Ex 4: If $P(x,y) = -3x^2y + 2xy^2 - 2x + 3y - 5$; evaluate $P(-2,1)$

Ex 5: A mother is 5 times as old as her daughter.
a) If the girl is x years old, how old is the mother?

	Mother	Girl
Now		
In 13 years		

c) What will their total age be in 13 years?

Practice:

2.4 # 1,2

