Aptitude Assignment 3

1. Write two quadratic equations such that the sum of roots equals twice the product of roots?

   Answer:- $2x^2+-3x-2=0$

   $3x^2+2x-1=0$

2. 2x+3y=12 has (2,3) as its solution or not? Answer:- NO

3. Find possible coordinates of (x,y) such that point (1,1), (2,2) & (x,y) are collinear?

   Answer:- Any coordinates which are in the form of(n,n) here n is real number.

4. Find out all possible values of a & b for which the ratio of a^3+b^3 to a^3-b^3 is 1:1 a,b are real numbers.

   Answer:- (a can have any value but b=0)

5. The triangle area formed by the lines y=x, y-axis and y=3 line will be? Answer:- Area of triangle=½*length*height
   ½ *3*3=4.5