Answer all the questions. (You may use calculators)

01) Simplify.

a) $2x + 3y + 5x - 2y$ b) $4(5x - 3y) + 7x - 2y$

c) $5ab - 4b^2 + 9ba + 7b^2$

(3 marks)

02) Solve the following equations. (Show the MathWorks)

a) $2x - 5 = 9$ b) $\frac{m}{2} + \frac{m}{3} = 10$

c) $2(7 - 5x) + 8 = 2(3x + 2)$ - 7

(6 marks)

03) Solve the following equations.

a) $2t^2 - 7 = 25$ b) $\frac{8}{y^2} = \frac{2}{9}$

(2 marks)

04) Find the answer to nearest 2 d.p. (Trial and improvement method). (3 marks)

$$n^3 + n = 35$$

n	$n^3 + n$

05) Make t the subject.

a) v= u+ at

b) s =$\frac{(u+v)t}{2}$

c) st = pt -h (3 marks)

06) Factorise

a) $2x^2 - 8x$

b) $12ab^2 - 4ba$

c) $9cd - 18dc^2 + 6d^2c$

(3 marks)

(Total = 20 Marks)