1.Derive the expression for determining displacement s occured for a body over a time period t with constant velocity v and constant acceleration a started with an initial speed u, and an initial position of zero.

2.Determine the value of following functions

a. $log_1 02$

b. tan (0)

c. $\sqrt{121}$

3.Solve $lim_{x\to 2}(8 - 3x + 12x^2)$

4.Derive the expression for determining hypotenuse of aright angled triangle (Pythagoras Theorem)

5.Determine the limit of following

a. $f(x) = 1 + 1/x$ at x =4

b. $\frac{sinx}{x}$ at x=0

6.f(x) = sin $\frac{x}{2}$

g(x) = $logx$

Determine

1. f+g

2. f-g

3. fg

4. f/g

5. f composition g

6. g composition f

at x=1

In [ ]: