***CHAPTER 7 ASSESSMENT - LOGARITHMIC EQUATIONS***

1. Rewrite in log form and solve : i) 4³ = x ii) 3^x = 89 [ K4]
2. Solve the equation using logs : 3^(x +1 ) = 4^x [ K1, T3 ]
3. A car depreciates at a rate of 11 % per year.
4. If its initial value is $26,000 , what will its value be in 7 years ?

[ K1, A3]

1. When will the value of the car be $10,000 ? [ K1, A2 ]
2. Evaluate using the laws of logs : ( assume base 10 ) [ K2, T4 ]
3. Log 18 + log 9
4. Log 37 – log 21
5. Write as a single log ( assume base 10 ) [ K2, C4 ]
6. Log ( 40/ 8 )

ii) Log ( 80) + log(21)

1. Solve and check for extraneous roots : ( assume base 10 ) [ K2, C3]

LogX + log ( X+1 ) = 9 .