**MHF4U Assessment – Chapters 6.1 – 6.4 ( Logarithms )**

1. Graph the function y =lnx and describe :
2. Domain and range
3. Intercepts
4. Asymptote
5. Sketch the inverse function [ C, 8 ]
6. Rewrite in log form : [ K, 2 ]
7. 4³ = x
8. 2³ = 8
9. Rewrite in exponential form and then solve : [ A, 3 ]

X = log500 ( assume base 10 )

1. Solve : log base(4) 29 = X. [ A2, C3] ]

Draw a graph to verify your answer.

1. Sketch a series of transformations to show how y = log(x) is transformed to 3log( 2x – 1 ) + 4. [ C, 5 ]
2. Evaluate : log base 4 (9)³ using the log power law. [ K,3]