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Engineering Mathematics - I Dr. V. Loksha 10 MAT11 9 2011 2. Find the nth derivative of log 4 2 8x + 3 Solution : Let y = log 4x2 +8x +3 = log (4x2 + 8x +3) ½ yie., 2 1 = log (4x2 + 8x +3) ∴ log xn = n log x 2 1 y = log { (2x + 3) (2x+1)}, by factorization. ∴ 2 1 y = {log (2x + 3) + log (2x + 1)} Now (i) ( ) ( ) ( )

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### Engineering Mathematics - 2

v = x/ t = x/ t. The ratio x/ t is the same as the ratio x/ t and the ratio is the gradient of the straight line. INFINITESIMALLY SMALL CHANGES'd': The symbol d is used to denote a change that is infinitesimally small. On our graph the ratios are all the same and equal to the velocity.

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