

CIVIL ENGINEERING REVIEW  
 PRELIM PROJECT

**DIFFERENTIAL CALCULUS:**

Find the slope of the curve  $x^2 + y^2 - 6x + 10y + 5 = 0$  at point (1, 0)

SOLUTION:

NOTE: slope =  $y'$

$$x^2 + y^2 - 6x + 10y + 5 = 0$$

$$2x + 2yy' - 6 + 10y' = 0$$

$$2yy' + 10y' = 6 - 2x$$

$$\frac{y'(2y+10)}{(2y+10)} = \frac{6-2x}{2y+10}$$

$$y' = \frac{6-2x}{2y+10}$$

substitute:  $x = 1$  &  $y = 0$

$$y' = \frac{6-2(1)}{2(0)+10} = \frac{6-2(1)}{2(0)+10}$$

$$y' = \frac{2}{5}$$

**INTEGRAL CALCULUS:**

Find the area of the region bounded by the curve  $y = \frac{12x}{x^2+4}$ , the x-axis,  $x = 1$  &  $x = 4$

SOLUTION:

$$A = \int_1^4 y \, dx, \quad y = \frac{12x}{x^2+4}$$

$$A = \int_1^4 \frac{12x}{x^2+4} \, dx$$

NOTE:  $\int \frac{du}{u} = \ln u + C$

$$u = x^2 + 4$$

$$du = 2x \, dx$$

$$dx = \frac{du}{2x}$$

$$A = \int_1^4 \frac{12x}{u} \cdot \frac{du}{2x}$$

$$A = 6 [\ln u]_1^4$$

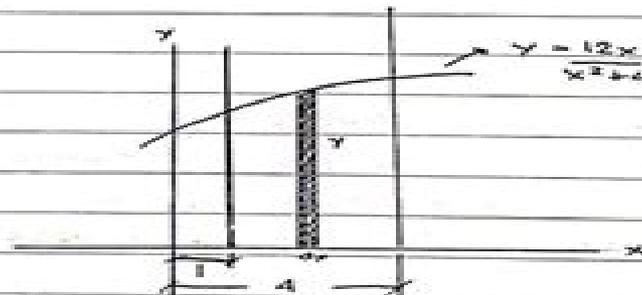
$$A = 6 [\ln(x^2+4)]_1^4$$

$$A = 6 [\ln(4^2+4) - \ln(1^2+4)]$$

$$A = 6 [\ln(20) - \ln(5)]$$

$$A = 6 \ln\left(\frac{20}{5}\right) = 6 \ln 4$$

$$A = 8.3178 \text{ sq. units}$$



# Highway Engineering Solved Problems In Solution

**D Keegan**



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