

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: $\int \frac{dv}{v} = \ln v + C$

$$v = x^2 + 4$$

$$dv = 2x \, dx$$

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

$$A = \int_1^4 \frac{12x}{v} \cdot \frac{dv}{2x}$$

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

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

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

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

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

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



Highway Engineering Solved Problems In Solution

Lauren Gardner



Highway Engineering Solved Problems In Solution:

Highway Engineering Solved Problems In Solution Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the power of words has become more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such may be the essence of the book **Highway Engineering Solved Problems In Solution**, a literary masterpiece that delves deep into the significance of words and their effect on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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