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19/ENCA03/039

CIVIL ENGR

If $\Phi = x^2yz^3 + xy^2z^2$, write a MATLAB mfile program to determine gradient at point $p(1,3,2)$

Command window

close all

clc

syms x, y

syms z

$$A = (x^1 2xy^2 z^3) + (x^2 y^1 2xz^2)$$

$$u = \text{diff}(A, x)$$

$$v = \text{diff}(A, y)$$

$$w = \text{diff}(A, z)$$

$$x = 1$$