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1 If $Q = x^2y^2z^2 + xy^2z^2$, Write a MATLAB in file program to determine point $P(1, 3, 2)$

Answer

1. Command Window

clear

clc

Syms x, y

Syms z

$A = (x^2 * y * z^3) + (x * y^2 * z^2)$

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

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

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

$x = 1$

$y = 3$

$z = 2$

$Un = \text{subs}(U)$

$Yn = \text{subs}(Y)$

$Wn = \text{subs}(W)$