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Biomedical Engineering

If $f = x^2y^3 + xy^2z^2$, write a matlab mfile program to determine the gradient at point $P(1, 3, 2)$

Command window

Close all

clc

Syms x,y

Syms z

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

u = diff(A,x)

v = diff(A,y)

w = diff(A,z)

x = 1

y = 3

z = 2

Un = subs(u)

Vn = subs(v)

Wn = subs(w)