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MATRIC NUMBER: 17/ENG02/061

DEPARTMENT: COMPUTER ENGINEERING

ENG 282 ASSIGNMENT 3

SCRIPT

commandwindow

clear

clc

syms x

syms y

syms z

Phi = (x^2\*y\*z^3)+(x\*y^2\*z^2)

GradPhi = gradient(Phi,[x,y,z])

GradPhi1 = subs(GradPhi,[x,y,z],[1,3,2])

OUTPUT

Phi =

x^2\*y\*z^3 + x\*y^2\*z^2

 GradPhi =

 y^2\*z^2 + 2\*x\*y\*z^3

 x^2\*z^3 + 2\*y\*x\*z^2

 3\*x^2\*y\*z^2 + 2\*x\*y^2\*z

GradPhi1 =

 84

 32

 72