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MATRIC NUMBER: 17/ENG01/008

DEPARTMENT: CHEMICAL ENGINEERING

ENG 282 ASSIGNMENT 3

SCRIPT

commandwindow

clear

clc

syms x

syms y

syms z

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

G= gradient(Fi,[x,y,z])

GradFi = subs(G,[x,y,z],[1,3,2])

OUTPUT

Fi=

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

 G =

 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

GradFi =

 84

 32

 72