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**17/ENG06/080**

**ASSIGNMENT 3**

commandwindow

clear

clc

close all

syms x y z i j k

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

a= diff(phi,x)

b= diff(phi,y)

c= diff(phi,z)

x=1 , y = 3 , z = 2

an= subs(a)

bn= subs(b)

cn= subs(c)

ann= subs(an)\*i

bnn= subs(bn)\*j

cnn = subs(cn)\*k

grad(phi)= ann+ bnn+cnn