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**MATRIC NO: 17/ENG06/037**

**DEPARTMENT: MECHANICAL ENGINEERING**

**COURSE CODE: ENG 282**

ENG 282 (III) ASSIGNMENT SOLUTION

commandwindow

clear

clc

syms x

syms y

syms z

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

T=gradient(R,[x,y,z])

Tn=subs(T,[x,y,z],[1,3,2])

**OUTPUT**

R =

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

T =

 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

Tn =

 84

 32

 72

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