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COLLEGE- ENGINEERING

DEPARTMENT- MECHANICAL

LEVEL- 200

MATNO- ITIENG 061029

COURSE- ENG282

~~000~~ ASSIGNMENT 3.

```
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
```