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If $\phi = x^2yz^3 + xy^2z^2$, write a MATLAB script program to determine gradient at point $P(1, 3, 2)$

```
1 Command window
2 clear
3 clc
4 syms x,y
5 syms z
6 A = (x^2*z^3 + y*z^3) + (x*y^2*z^2)
7 U = diff(A,x)
8 V = diff(A,y)
9 W = diff(A,z)
10 x = 1
11 y = 3
12 z = 2
13 Un = subs(U)
14 Vn = subs(V)
15 Wn = subs(W)
```