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If $d = x^2yz^3 + xy^2z^2$, write a matlab mfile Program to determine gradient at point t$(1,3,2)$.

Soln:

1. Command Window
2. close all
3. clc
4. Syms Z, y
5. Syms Z
6. A= $(x^2*y*z^3) + (x*y^2*z^2)$
7. U= diff(A, x)
8. N= 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)

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