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Computer Engineering-

let  $k = \phi$

Command window

clear

Syms x y z

$$k = (x.^2 * y * z.^3 + x * y.^2 * z.^2)$$

~~k~~

diff(k, x)

$$= y^2 * z^3 + 2 * x * y * z^2$$

diff(k, y)

$$= x^2 * z^3 + 2 * y * x * z^2$$

diff(k, z)

$$= 3 * x^2 * y * z^2 + 2 * x * y^2 * z$$