

$\int dx \ a \ x^n \ dx$

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M/ENG03/004

CIVIL ENGINEERING

$$Q = x^4 z^6 + x^4 z^2$$

Command Window

clear

clc

Syms x, y, z

$$Q = x^4 * y^6 * z^6 + x^4 * y^2 * z^2$$

diff(Q, x)

diff(Q, y)

diff(Q, z)

subs(C

$$x = \frac{1}{y^2 z^2}$$

$$Q = x^4 y^6 z^6 + x^4 y^2 z^2$$

$$x = \frac{1}{y^2 z^2}$$

$$Q = \left(\frac{1}{y^2 z^2}\right)^4 y^6 z^6 + \left(\frac{1}{y^2 z^2}\right)^4 y^2 z^2$$

$$Q = \frac{y^6 z^6}{y^8 z^8} + \frac{y^2 z^2}{y^4 z^4}$$

$$Q = \frac{z^2}{z^2} + \frac{1}{z^2}$$