

## 465.211 - Mechanics in Energy Resources Engineering, Spring 2010

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### Useful mathematical terms in English

0.72	point seven two
$1/5$	one-fifth; a fifth
$3/4$	three-fourth; three quarters
$1\ 1/2$	one and a half
$x/5$	x over five
$x^2$	x squared
$y^3$	y cubed
$z^9$	z (raised) to the power of 9
$x^y$	x to the power of y
$10^{-4}$	ten to minus four
$\sqrt{9}$	the square root of nine
$\sqrt[3]{16}$	the cube root of 16
$\sqrt[4]{256}$	the fourth root of 156
5:1	a five-to-one ratio; a ratio of five to one
$2 + 3 = 5$	two plus three equals five; add two to three, which makes five
$2 \times 3 = 6$	two times three equals (is) six; two multiplied by three makes six
$2\text{ cm} \times 3\text{cm}$	two centimeters by three centimeters

$\frac{\partial u}{\partial x}$	the partial derivative of u with respect to x
$\vec{q}$	the vector q
$ A $	The absolute magnitude of A; the modulus of A
$\sum_{t=0}^n$	the sum from t equals zero to n
()	parentheses
[]	square brackets
{}	braces
>	is greater than
$\geq$	is greater than or equal to
<	is less than
$\approx$	is approximately equal to