Quick notes on doing math with WolframAlpha on the web at wolframalpha.com

You can ask things like *what is the highest mountain in peru?* or *what is the age distibution in mongolia?*

Or you can do some math. Enter the following lines and hit return or click the = button

ROOTS of nonlinear equation with symbolic variables, enter:

```
c – x – (k1*x^0.5 + k1*x + k3*x^2) * t = 0
```

ROOTS of nonlinear equation with constants, enter:

```
0.1 – x – (0.004*x^0.5 + 0.3*x + 0.25*x^2) * 10 = 0
```

DERIVATIVE with symbolic variables, enter:

```
derivative of k2*x/(k1*x^0.5+k3*x^2) with respect to x
```

DERIVATIVE with constants, enter:

```
derivative of 0.3*x/(0.3*x^0.5+0.25*x^2) with respect to x
```

DERIVATIVE with constants and evaluate at specified value, enter:

```
derivative of 0.3*x/(0.3*x^0.5+0.25*x^2) with respect to x at x = 0.5
```

INTEGRAL, indefinite, enter:

```
integral of dx/(1-x)
```

INTEGRAL, definite, enter:

```
integral of dx/(1-x) from x = 0 to x = 0.5
```