TeX/LaTeX cheat sheet. 3/2/2016 Halverson

I used http://www.forkosh.com/mimetextutorial.html to generate these examples. This is a good source of information.

Moodle starts Latex math mode with "(\" and ends Latex math mode with "\)"	y is x squared \(y=x^2 \) z is x cubed \(z=x^3 \)	y is x squared: $y = x^2$ z is x cubed: $z = x^3$	
$y = x^2$	y=x^2	$y = x_0$	y=x_0
$y = \dfrac{1}{x}$	y=\frac{1}{x}	$x = \sqrt{a}$	x=\sqrt{a}
Δt	\Delta t	$R = 500\Omega$	R=500\Omega
$\alpha\beta\gamma\lambda\theta\phi$	\alpha \beta \gamma \lambda \theta \phi	Degrees: $90°$	90^\circ
$sin^2(\theta) + cos^2(\theta) = 1$	sin^2(\theta)+cos^2(\theta)=1		
$\vec{x}$	\vec{x}	$\vec{F} = m\vec{a}$	\vec{F}=m\vec{a}
$\sum\limits_{i=1}^{n} i$	\sum_{i=1}^ni	$\int\limits_{x_0}^{x_1} f(x)dx$	\int\limits_{x_0}^{x_1}f(x)dx
Units need to be in non-math mode. Use the \text{} command			
$V = 5 \text{ Volts}$	V=5\text{ Volts}	$KE = 8 \text{ Joules}$	KE=8\text{ Joules}
$Error = \pm 5 \text{ mm}$	\text{Error}=\pm 5 \text{ mm}	$\pm$	\pm

1: Show menu

3: Preview

2: Equation editor
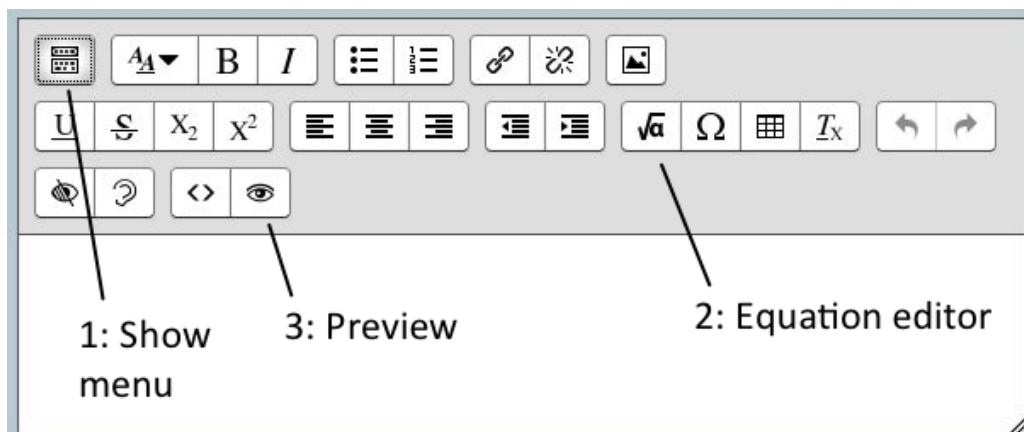
Answers to the Tex/Latex Practice in Moodle.

(Answers are scrambled)

I=\frac{V}{R}=\frac{50 \text{ Volts}}{100 \Omega} = \frac{1}{2} \text{ Amps}

Q=m C_P \Delta T = (1 \text{ kg})(1000 \frac{\text{ cal}}{\text{ kg}})(15 ^\circ C)

= 15000 \text{ calories}

\frac{x^2}{a^2}+ \text{(You do it)} = 1 \rightarrow \frac{x^2}{(8 \text{ cm})^2} + \text{(You finish it)}

R_\text{eff} = \frac{1}{\frac{1}{R_1} + \frac{1}{R_2} + \text{(You do it)} } = \frac{1}{\frac{1}{10 \Omega} + \text{(You do it)} + \text{(You do it)} }

= 2.353 \text{ Ohms}

d=d_0 + v_0 t + \frac{1}{2} a t^2

= 0 + (20 \frac{\text{m}}{\text{s}}) + \frac{1}{2}(5 \frac{ \text{m}}{\text{s}^2})(100 \text{ s}^2)

= 27000 \text{ meters}

Don't forget that Moodle starts Latex math mode with "\(" and ends Latex math mode with "\)"
The \(and \) should be in the answer box, but not in the math editor.

Unscramble: 1 3 5 4 2