

# Introduction of the TI-83/TI-84 Graphing Calculator

Math Study Center, Grossmont College

<b>Turning Your Calculator On and Off</b>	
<b>Adjusting Display Brightness</b>	
<b>Negative Numbers</b>	
$-3 \times 4 =$	
<b>Exponents</b>	
$3^4 =$	
<b>Using the 2<sup>nd</sup> Key</b>	
$\sqrt{23} =$	
<b>Order of Operations</b>	
$\frac{1 - 3(1 + 2)^2}{2 + 4(-3)}$	
<b>Entry and Ins Keys</b>	
$\frac{1 - 3(1 - 2)^2}{2 + 4(-3)}$	
$\frac{1 - 13(1 - 2)^2}{2 + 4(-3)}$	
<b>Ans Key</b>	
$1 - 2 \left( \frac{1 - 13(1 - 2)^2}{2 + 4(-3)} \right)$	
<b>Mode Menu</b>	
NORMAL v SCI: $12 \times 12 =$	
FLOAT v 3: $1/3 =$	
RADIAN v DEGREE: $\sin^{-1} \left( \frac{1}{2} \right) =$	
<b>Math Menu</b>	
Math .625 > FRAC = $\sqrt[4]{16} =$	

Num $\text{abs}(-3) =$ $\text{lcm}(66, 18) =$	
Prb $4! =$	
<b>Matrix Menu</b>	
$A = \begin{bmatrix} 1 & 2 \\ 5 & -3 \end{bmatrix}$	
$\det(A) =$	
$A^{-1} =$	
$A * A =$	
<b>Alpha &amp; Alpha-Lock</b>	
Type your name	
<b>Using the Catalog</b>	
Find >FRAC	

### Graphing

<b>Adding &amp; Graphing Functions</b>	
$y = 2x - 3$ $y =  x  + 10$	
<b>Changing Zoom</b>	
<b>Table &amp; Table Set</b>	
<i>Evaluate both functions at <math>x = 10.25</math></i>	
<b>Calculate</b>	
Intersect <i>Evaluate</i> $2x^2 + 10x + 7 = x^2 + 2x$	
Find zeros $f(x) = 2x^2 + 10x + 7$	
Find vertex (minimum) $f(x) = 2x^2 + 10x + 7$	