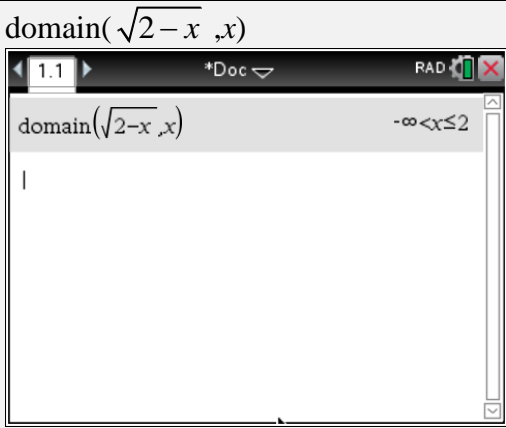
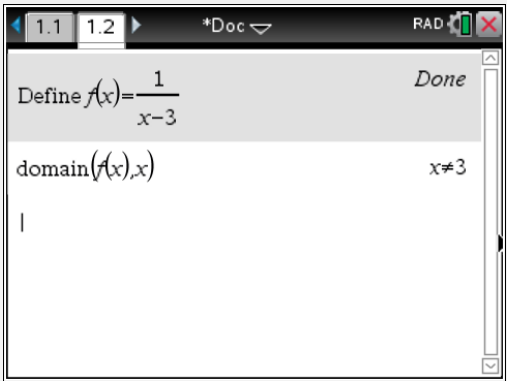
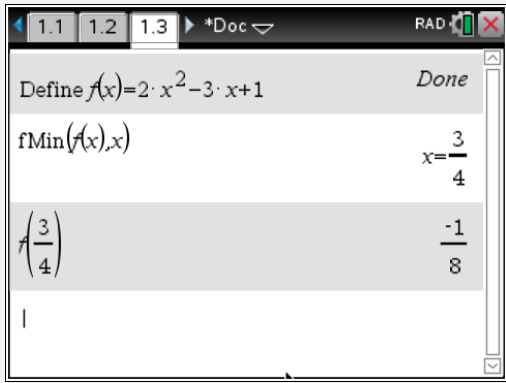
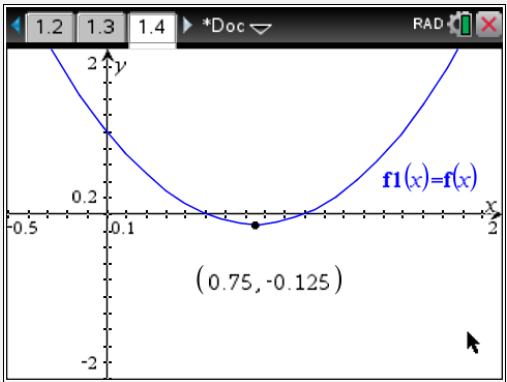


Domain and Range on TI Nspire CAS

To find the domain of a function, in the calculator screen type:

 <p>domain($\sqrt{2-x}$, x)</p> <p>$-\infty < x \leq 2$</p>	<p>Alternatively, define you function first (Menu, Action, Define) and then find its domain.</p>  <p>Define $f(x) = \frac{1}{x-3}$ Done</p> <p>domain($f(x)$, x) $x \neq 3$</p>
<p>You need to type the function, then coma, then variable.</p> <p>Therefore domain is:</p> $x \in (-\infty, 2]$	<p>Therefore domain of $f(x) = \frac{1}{x-3}$ is:</p> $x \in R \setminus \{3\} .$

To find the range, select Menu, Calculus, Function Minimum or Function Maximum. The calculator will return the x -value when the max or min occurs. Then find the value of the function at this point.

 <p>Define $f(x) = 2 \cdot x^2 - 3 \cdot x + 1$ Done</p> <p>fMin($f(x)$, x) $x = \frac{3}{4}$</p> <p>$f\left(\frac{3}{4}\right)$ $-\frac{1}{8}$</p>	<p>Of course graphical approach is more effective with range:</p>  <p>$f(x) = f(x)$</p> <p>$(0.75, -0.125)$</p>
	<p>Therefore range is $y \geq -\frac{1}{8}$</p>