

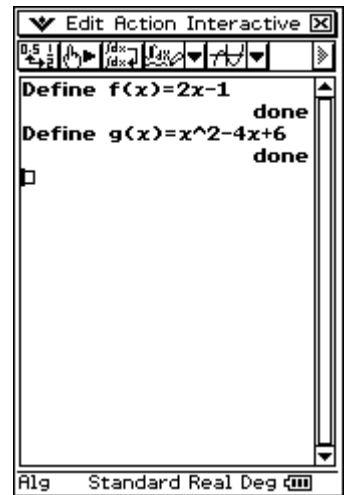
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045	Composite Functions	Author	Charlie Watson
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Working with composite functions is easy using Classpad.

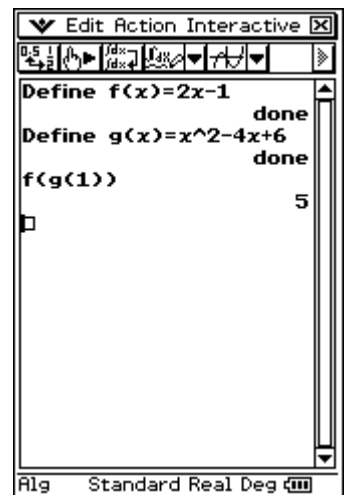
Start in Main by defining f and g as shown.

$$f(x) = 2x - 1$$

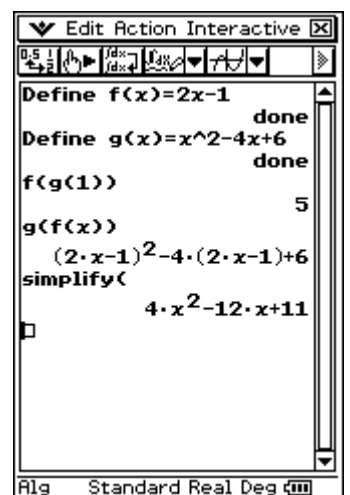
$$g(x) = x^2 - 4x + 6$$



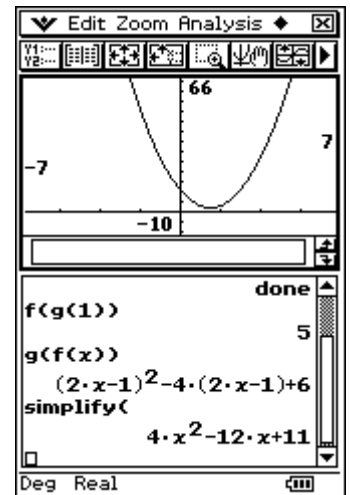
The next screen shows the value of $f(g(1))$



To determine $g(f(x))$ it often pays to call the simplify command.



To graph a compound function, simply drag $g(f(x))$ into the graph window or in the graph and table application, enter $Y1=g(f(x))$.



There may be another function h such that $g(h) = 4x^2 - 12x + 11$.

Start by entering $g(h) = 4x^2 - 12x + 11$ and solve the resulting equation for h .

Note the second solution $h(x) = -2x + 5$.

