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043	Creating User Defined Functions	Author	Charlie Watson
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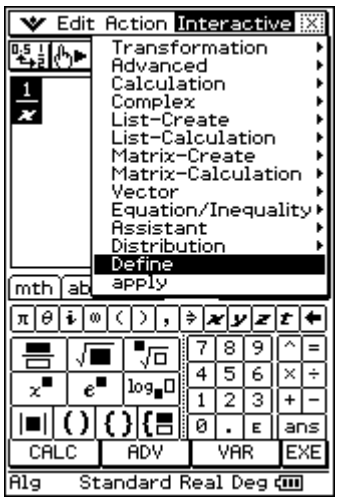
Example (i)

Let $f(x) = \frac{1}{x}$. Find $f(5)$ and x such that $f(x) = 0.25$.

Enter the expression $\frac{1}{x}$ and drag across to select it.

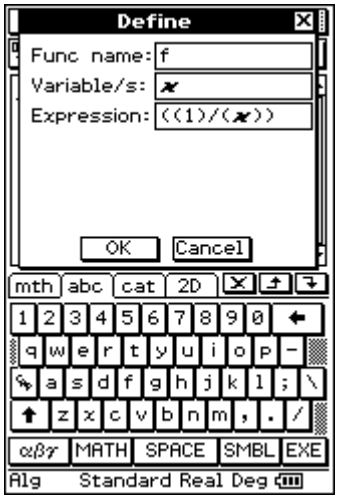
Tap **Interactive**, **Define**.



Tap into the Variable/s box and enter **x**.

Tap into the Func name box, tap the **abc** tab and enter **f**.

Tap **OK** and $f(x)$ has been defined.

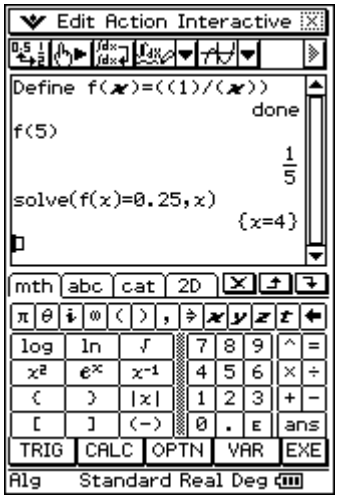


Enter f(5) and tap **EXE**.

Enter $f(x) = 0.25$ and drag across to select.

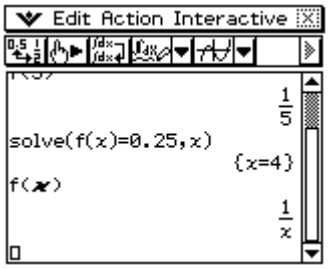
Tap **Interactive**, **Equation/Inequality**, **solve**.

Tap **OK**.



Note that any attempt to use the variable ‘f’ now produces an error.

Entering $f(x)$ returns the function.



Example (ii)

Create a function called Ckm2ms to convert speeds from kilometres per hour to metres per second.

Start in Main and **Clear All**. Tap **Interactive**, **Define**.

Use the **abc** tab to enter the ‘Func name’ as Ckh2ms.

Enter the ‘Variable/s’ as *n*.

Enter the conversion expression as $10n/36$.

Tap Keyboard, tap the **cat** tab and under Form choose User.

All User Defined functions on your Classpad are now displayed.

Tap onto **Ckh2ms(** and tap **INPUT**.

Now add 100 to the function and tap **EXE**.

100km/h is approximately 27.8m/s.