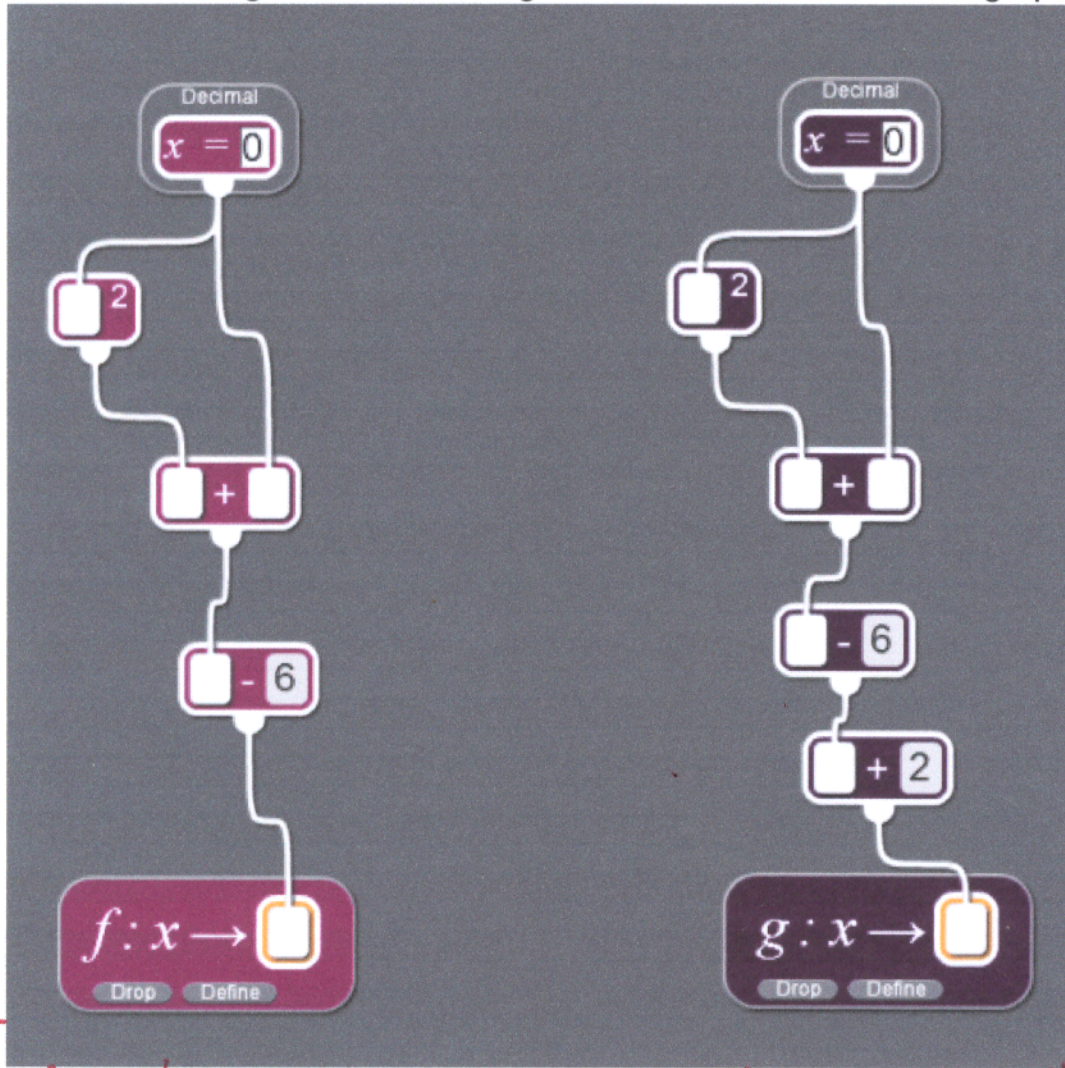


'Quadratic Transformations' printed from <http://nrich.maths.org/>

Show menu

If you have never used the NRICH Number Plumber before, click [here](#) to watch a short introductory video.

Click on the image below to investigate the two functions and their graphs.

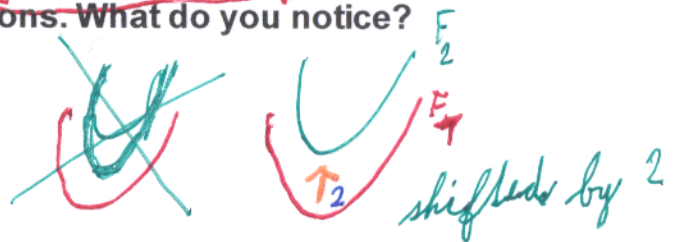


$F_1 = x^2 + x - 6$

$F_2 = x^2 + x - 6 + 2$

Try using the same input number for both functions. What do you notice?

Look at the steps which make up the functions.
 How are the two functions related? $F_2 = F_1 + 2$
 How are their graphs related?



If you have met the idea of expressing a function in the form $f(x)$, try to write one function in terms of the other.

Experiment with other pairs of functions linked in the same way.

Kristof