

## Risp 34: Graphing Tiles

You are given the following tiles, where  $c$  is a constant.



How many sensible equations can you make from some or all of these? (No repeats!)

*The tiles must lie on a straight line:   is not allowed." data-bbox="582 301 901 372"/>*

Enter your equations into your graphing package.

*It will give  $c$  the value 1 to start with.*

Now alter  $c$  using the constant controller.

Are there any lines of symmetry?

Can you find a value for  $c$  so that:

1. three of your curves are straight lines that enclose an equilateral triangle? What is its area?

2. two of your equations represent a curve and a straight line that touch? Where do they touch?

What other questions could we ask about this situation?