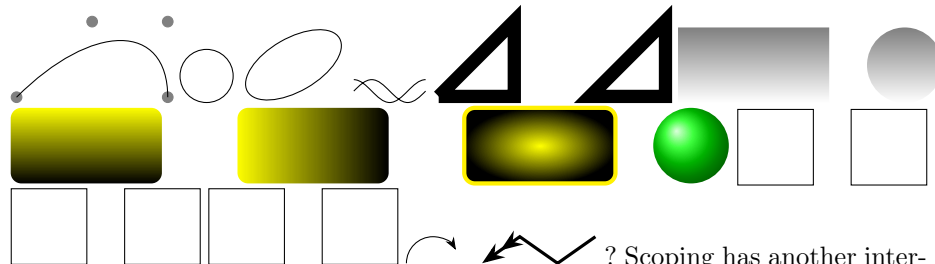


The angle  $\alpha$  is  $30^\circ$  in the example ( $\pi/6$  in radian). The sine of  $\alpha$  which is the height of the red line is

$$\sin \alpha = 1/2.$$

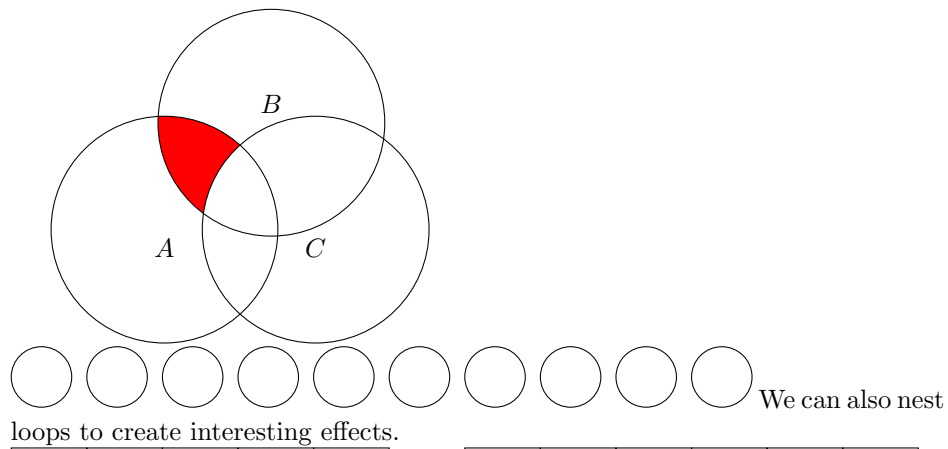
By the theorem of Pythagoras,...

Curved Path Construction.



? Scoping has another interesting effect: Any changes to the clipping area are local to the scope. Thus, if you say `\clip` somewhere inside a scope, the effect of the `\clip` command ends

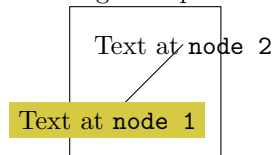
after the end of that scope.  $\parallel$    $x = 1, x = 2, x = 3,$



1,5	2,5	3,5	4,5	5,5
1,4	2,4	3,4	4,4	5,4
1,3	2,3	3,3	4,3	5,3
1,2	2,2	3,2	4,2	5,2
1,1	2,1	3,1	4,1	5,1

7,5	8,5	9,5	10,5	11,5	12,5
7,4	8,4	9,4	10,4	11,4	12,4
7,3	8,3	9,3	10,3	11,3	12,3
7,2	8,2	9,2	10,2	11,2	12,2
7,1	8,1	9,1	10,1	11,1	12,1

Labeling examples using TikZ.



You can also position labels on curves and, by adding the `sloped` option, have them rotated such that they match the line's slope.



Using `pics` to reuse a piece of code in a picture.

