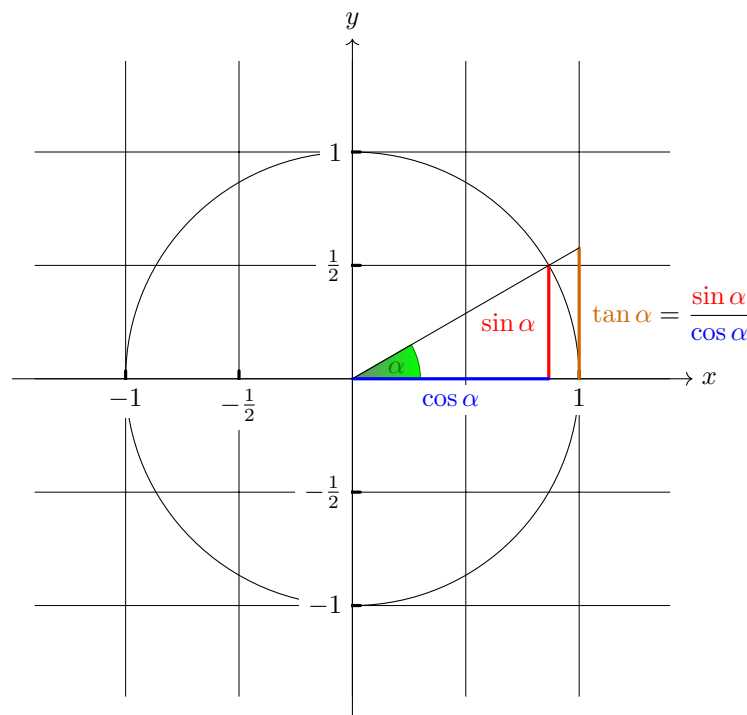


1 Karl's graph

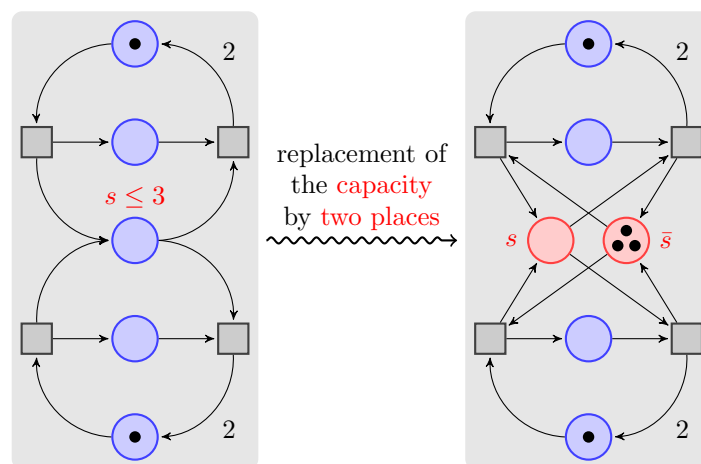


The **angle** α is 30° in the example ($\pi/6$ in radian). The **sine of** α which is the height of the red line is

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

By the theorem of Pythagoras,...

2 Petri Nets

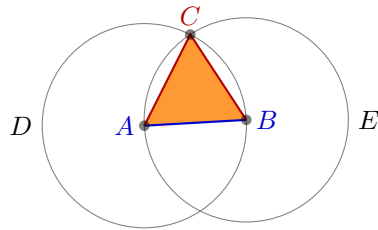


3 Book I, Proposition I

Proposition I

To construct an *equilateral triangle* on a given *finite straight line*.

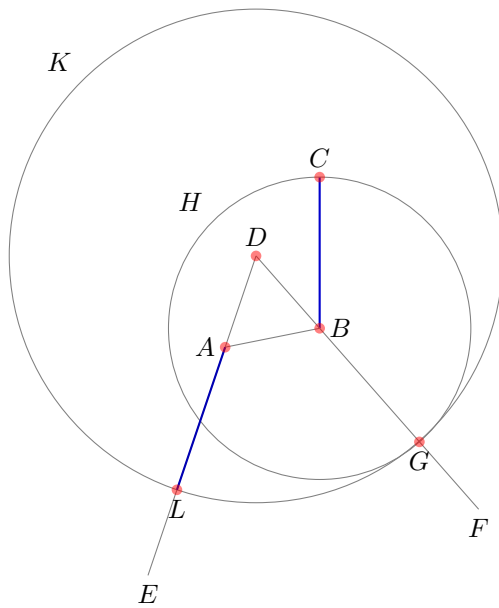
Let *AB* be the given *finite straight line*. ...



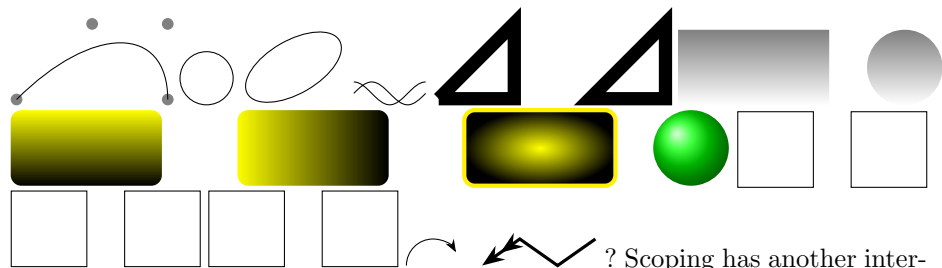
4 Book I, Proposition II

Proposition II

To place a *straight line* equal to a given *straight line* ...



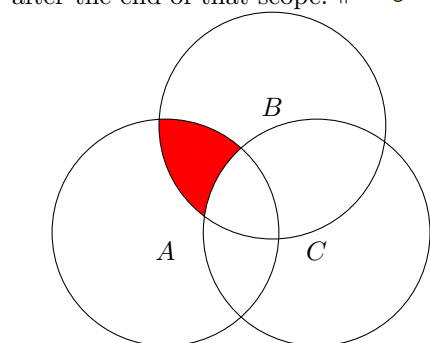
Curved Path Construction.



? 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. `\|`  $x = 1, x = 2, x = 3,$



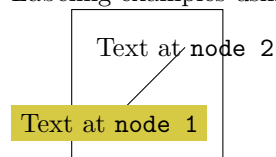
We can also nest

loops to create interesting effects.

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.

