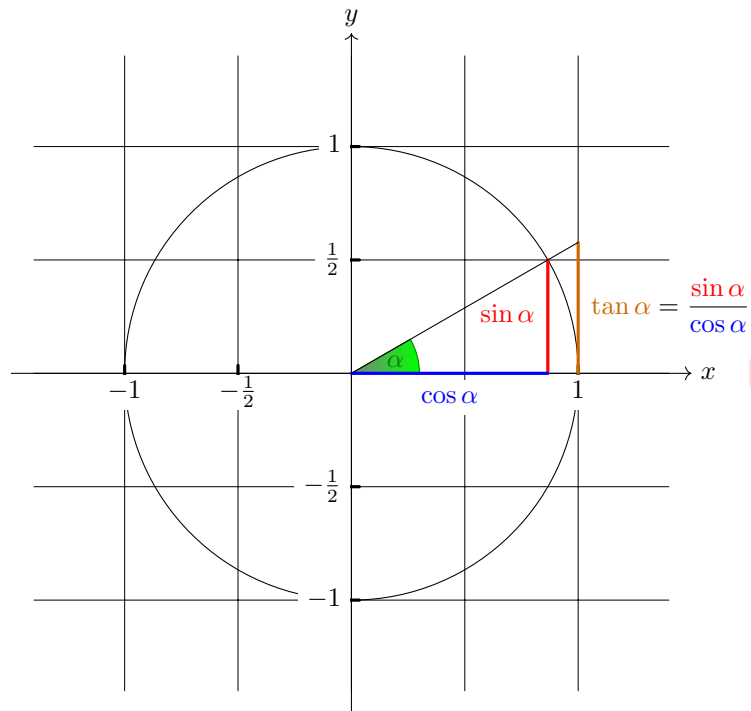


1 Karl's graph

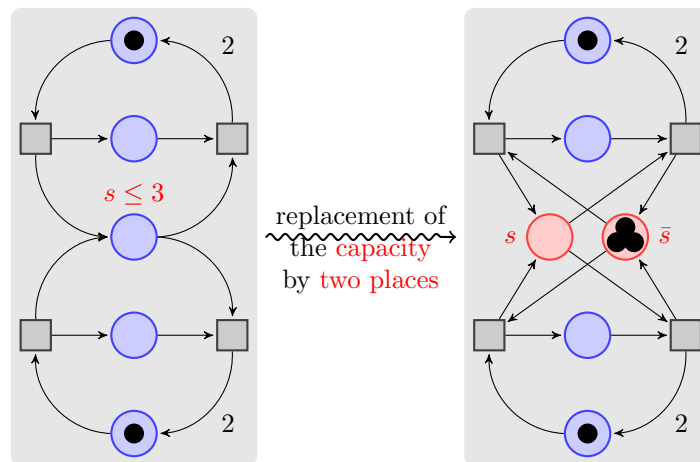


The angle α is 30° in the example ($\pi/6$ in radian). The sine of α which is the height of the red line is

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

By the theorem of Pythagoras,...

2 Petri Nets

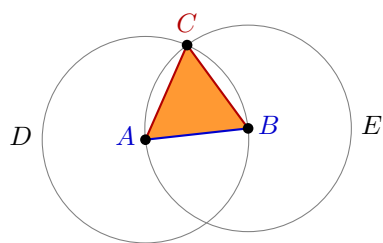


3 Book I, Proposition I

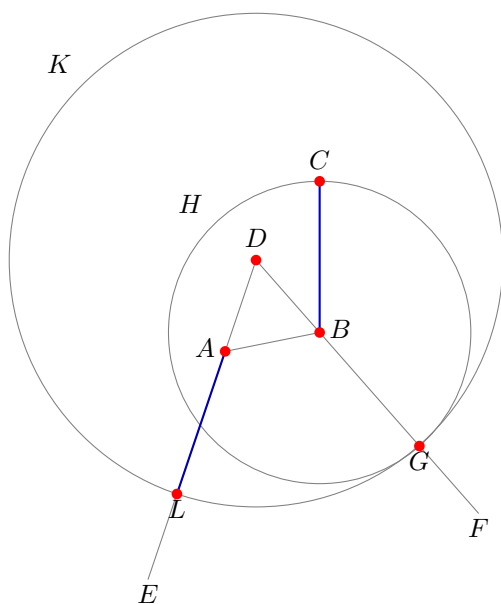
Proposition I

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

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



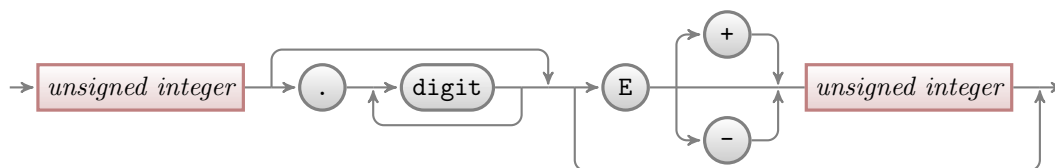
4 Book I, Proposition II



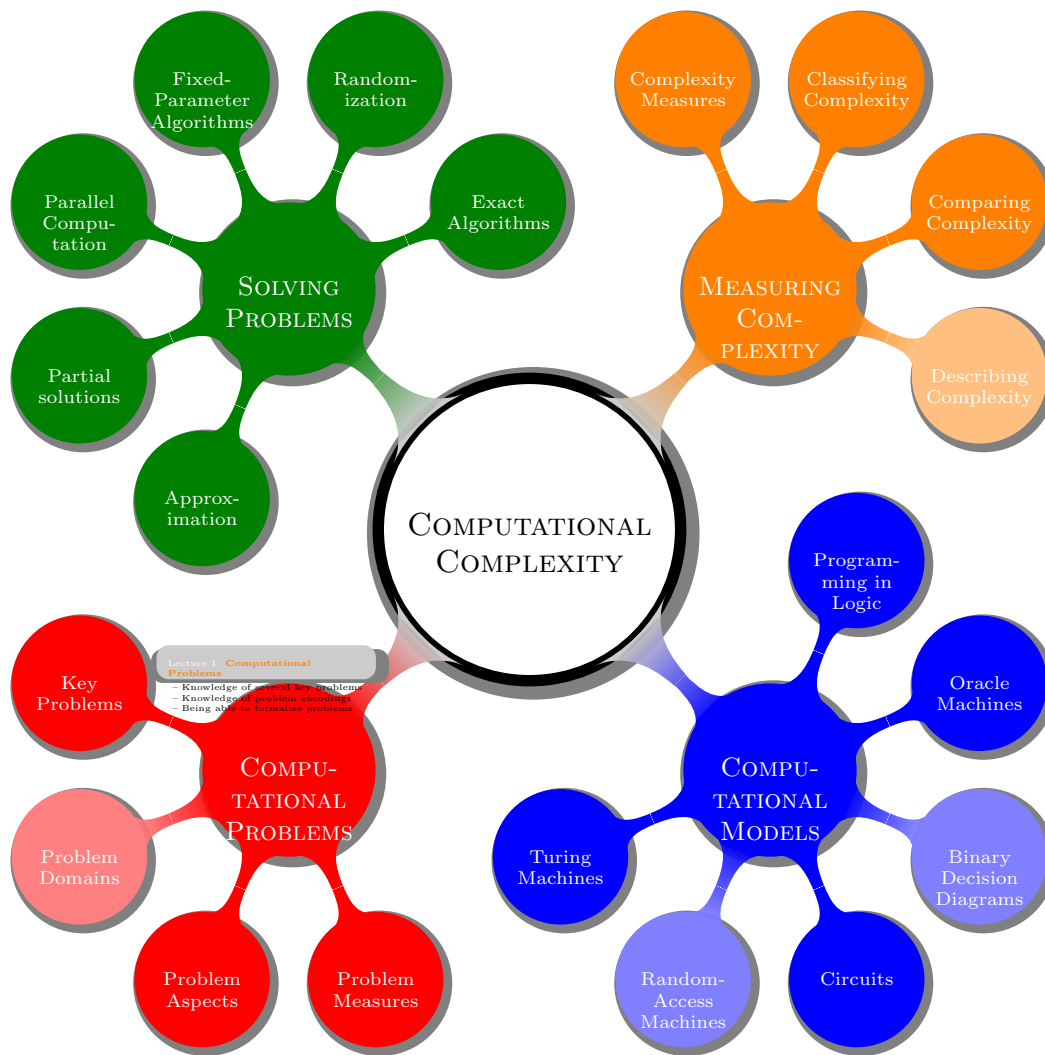
Proposition II

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

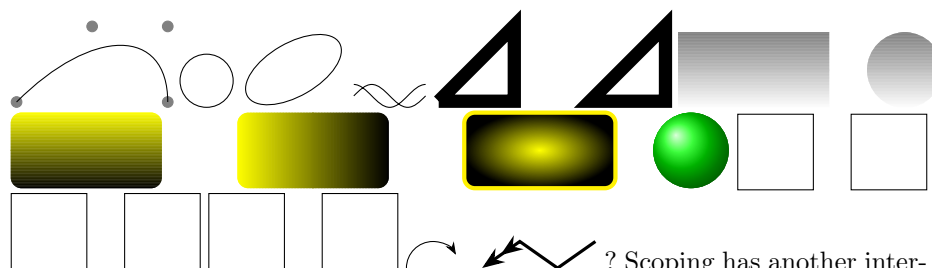
5 Diagrams as Simple Graphs



6 Johannes Lecture Map

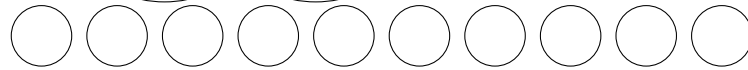
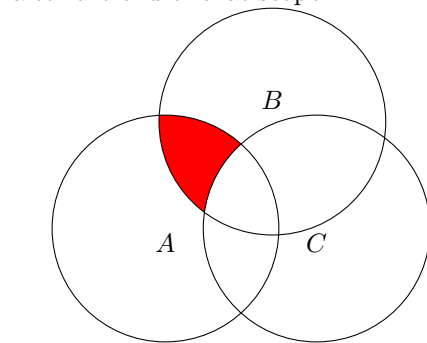


Curved Path Construction.



you say `\clip` somewhere inside a scope, the effect of the `\clip` command ends

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



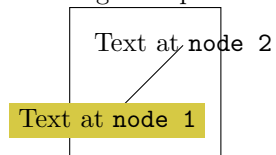
We can also nest

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.

