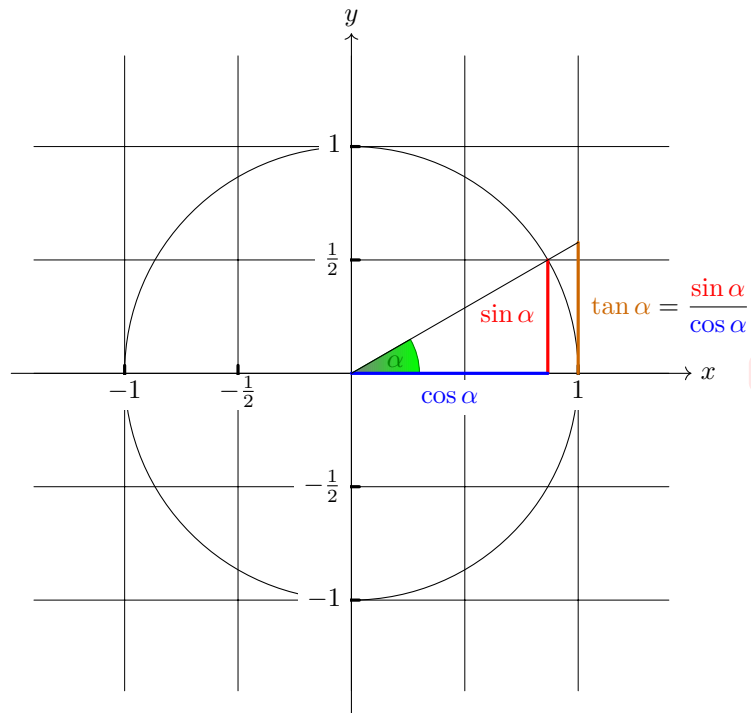


1 Karl's graph

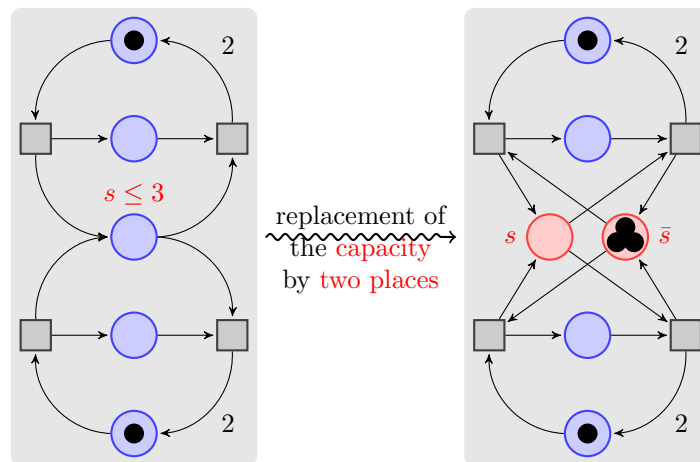


The angle α is 30° in the example ($\pi/6$ in radian). The sine of α which is the height of the red line is

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

By the theorem of Pythagoras,...

2 Petri Nets

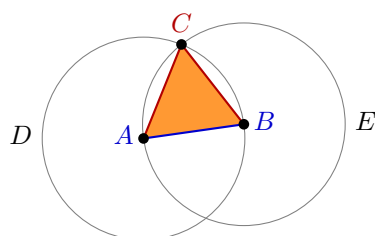


3 Book I, Proposition I

Proposition I

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

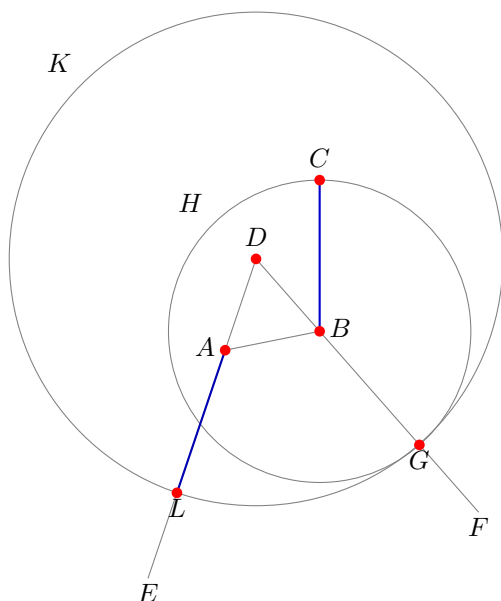
Let *AB* be the given *finite straight line*. ...



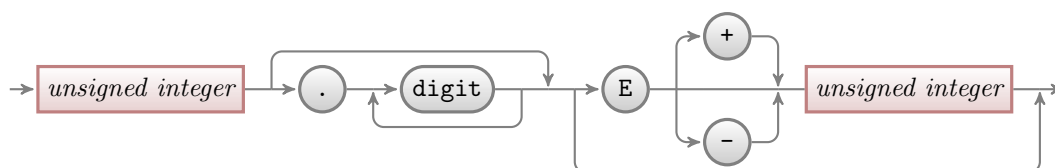
4 Book I, Proposition II

Proposition II

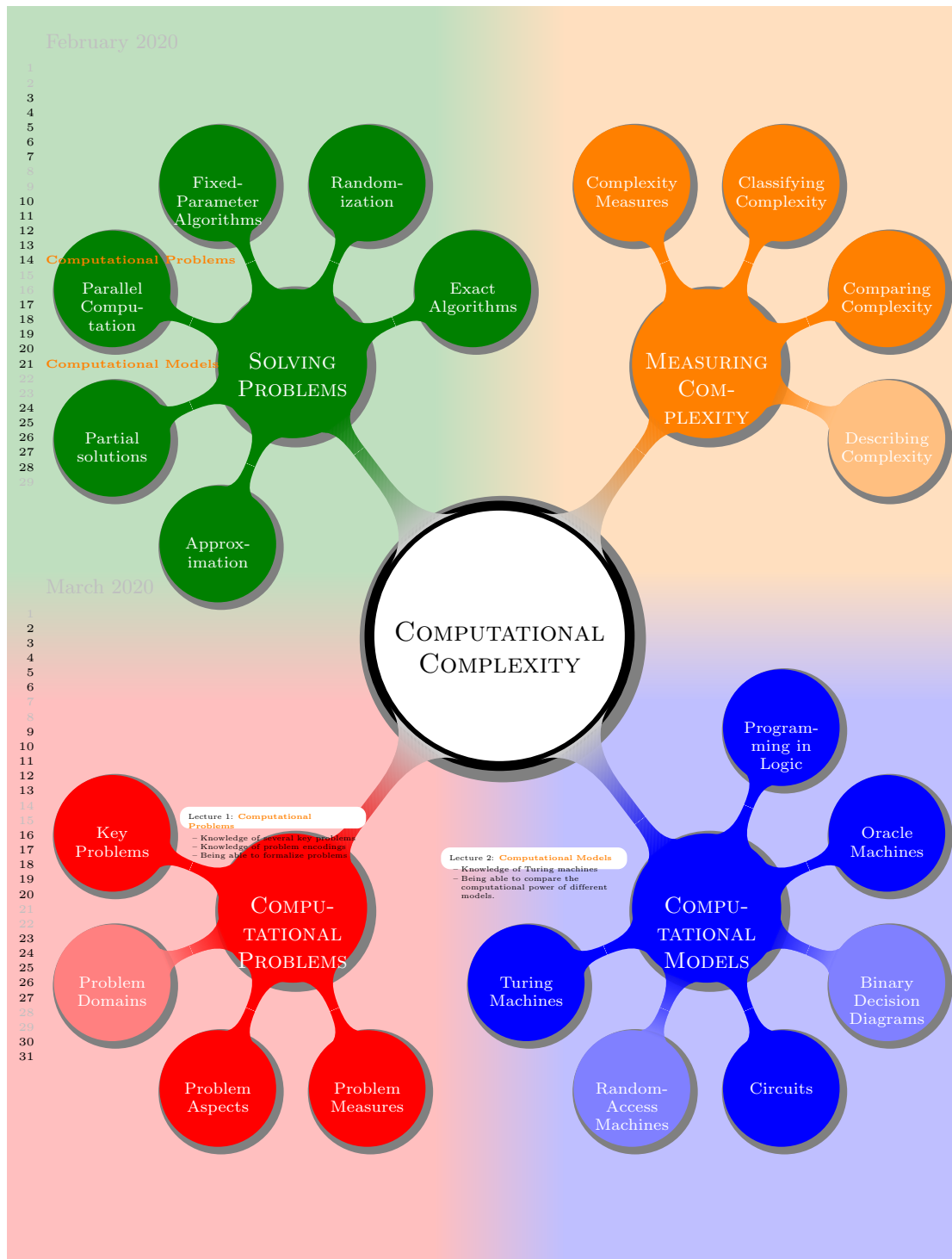
To place a *straight line* equal to a given *straight line* ...



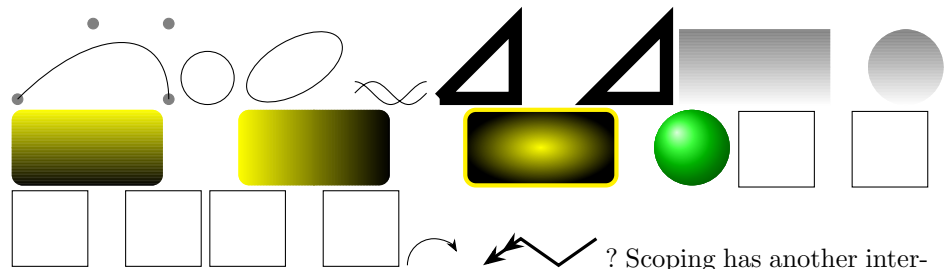
5 Diagrams as Simple Graphs



6 Johannes Lecture Map

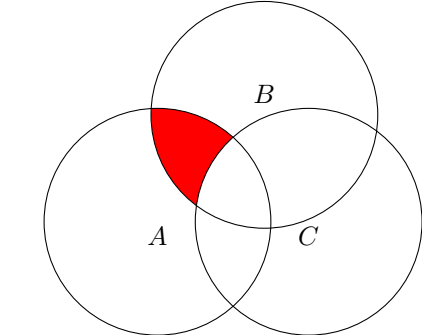


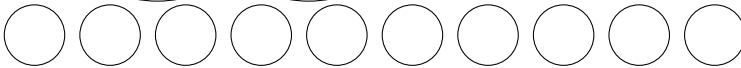
Curved Path Construction.



? 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.

