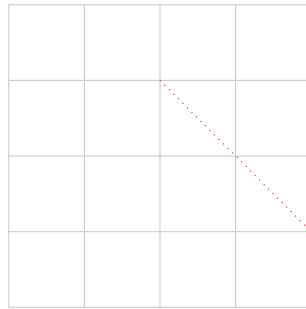
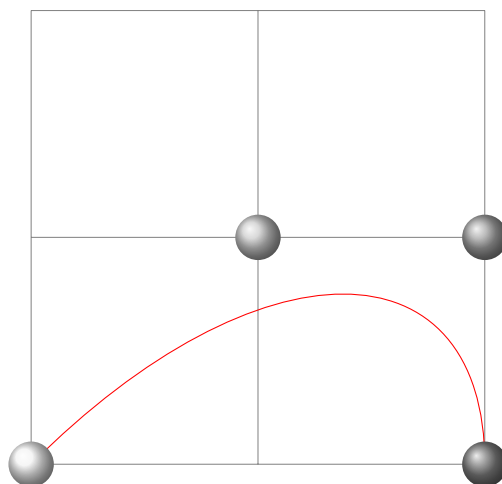
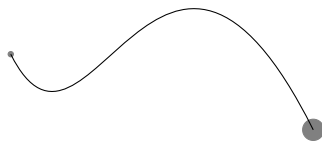
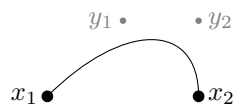
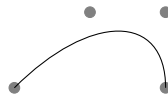
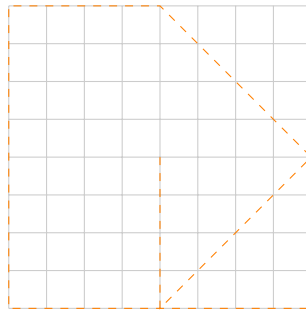
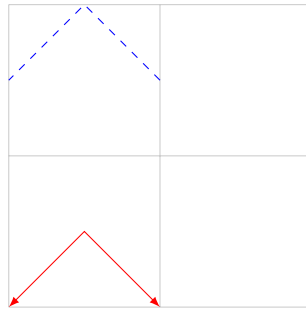


Task1: 绘制 2\*2 的灰色网格点

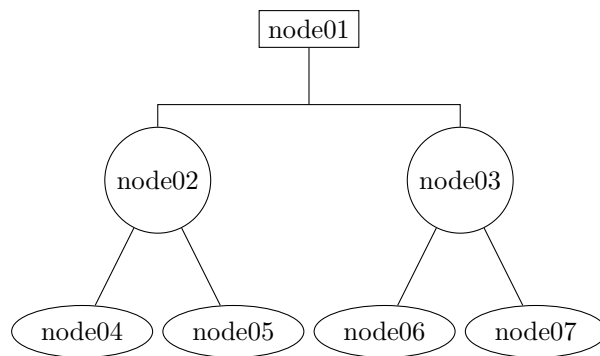


Task2: 使用控制点绘制弧形曲线

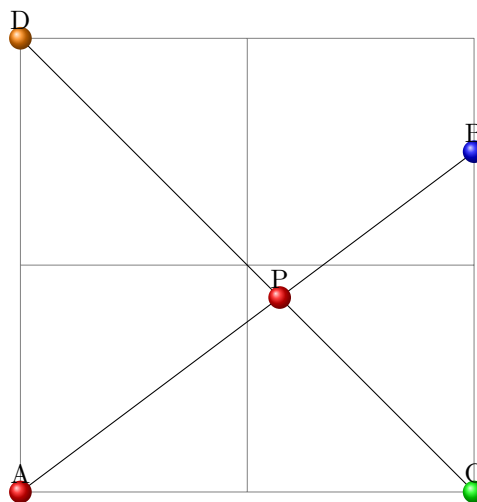




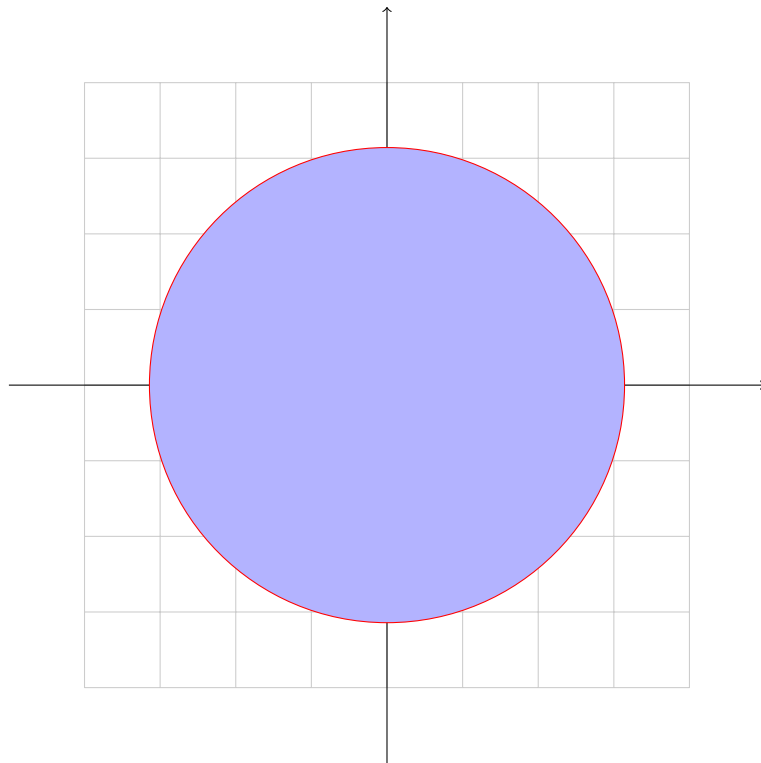
Task3: 使用 node 绘制节点树图



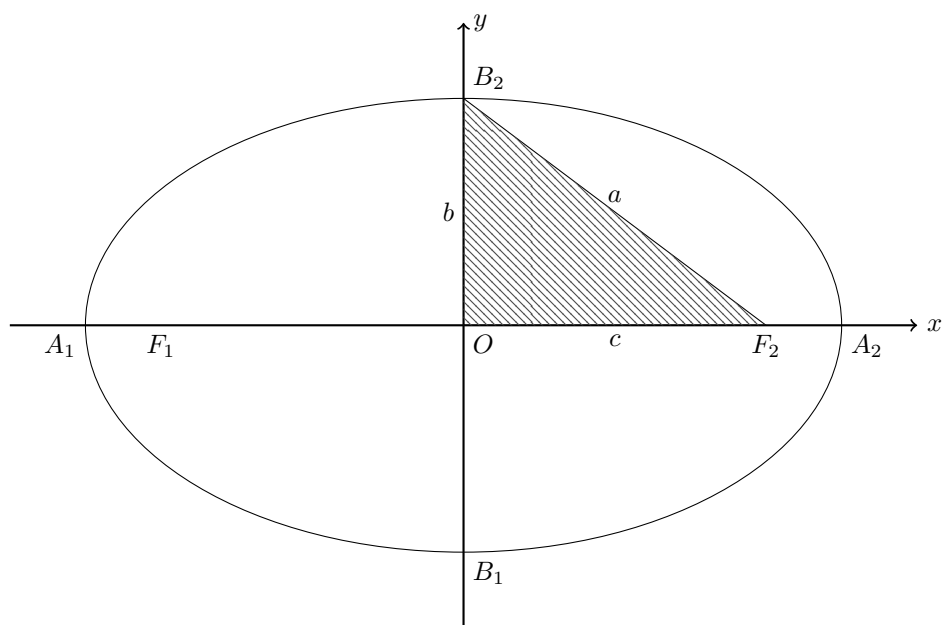
Task4: 绘制两个路径的交点



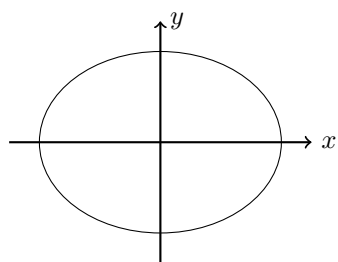
Task5: 绘制坐标轴与一个半径为  $\pi$  的圆



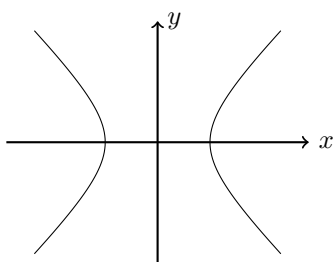
Task6: 绘制椭圆与其焦点三角形



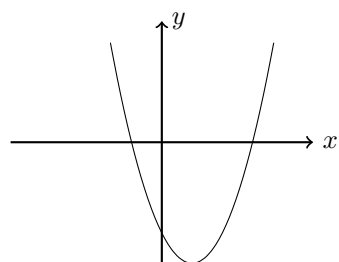
Task7: 绘制三大圆锥曲线并练习 scope 环境的用法



(1)  $e < 1$

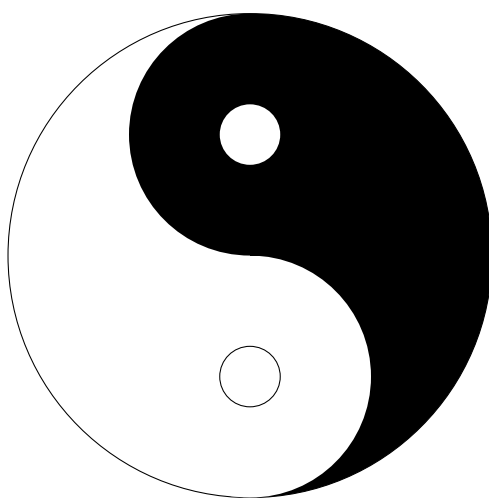


(2)  $e > 1$

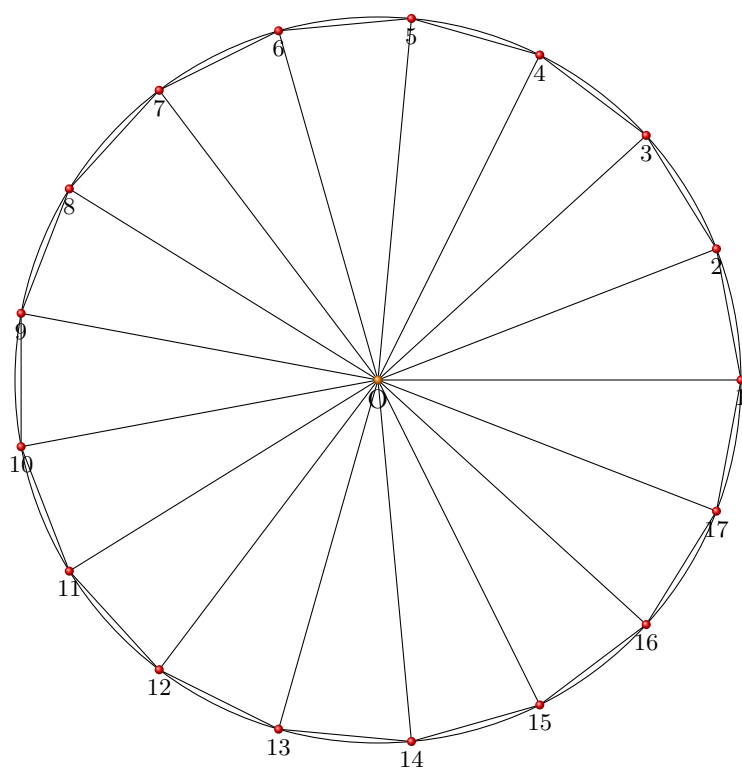


(3)  $e = 1$

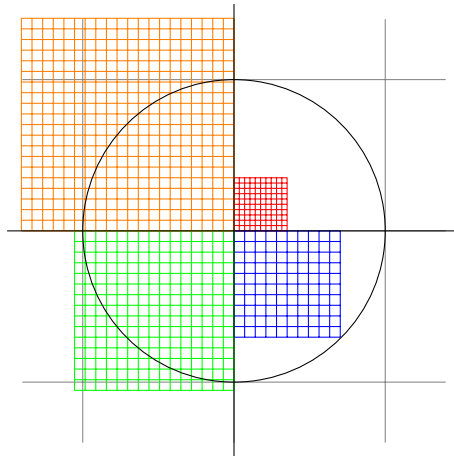
Task8: 绘制圆状太极图案



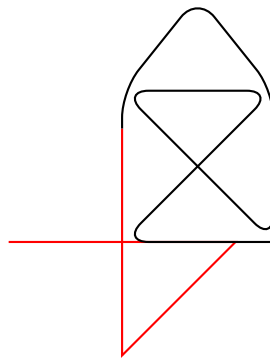
Task9: 绘制 Gauss 经典的圆内接正十七边形



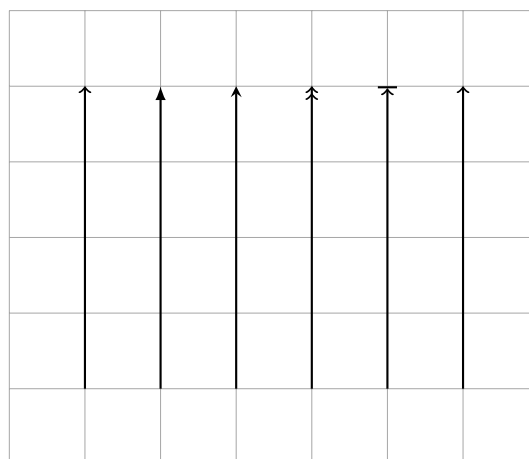
Task10: 使用 help lines 绘制花里胡哨网格图



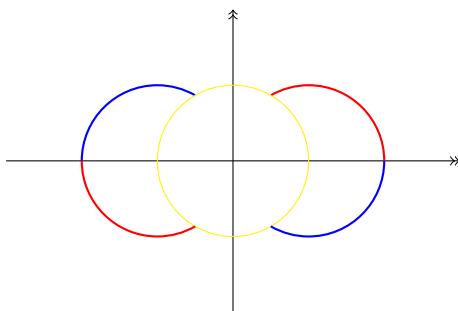
Task11: 使用 rounded corners 选项绘制光滑线段图



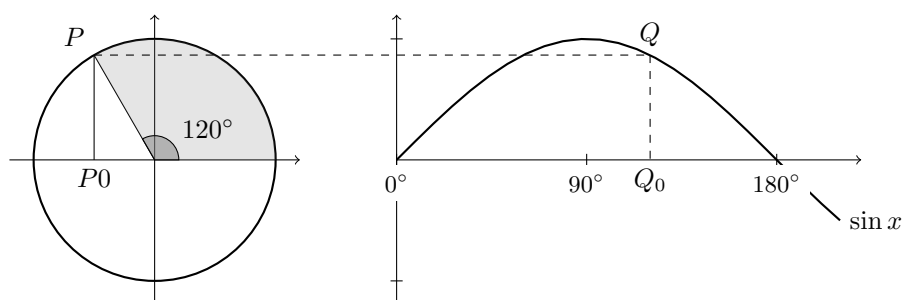
Task12: 绘制花里胡哨的箭头



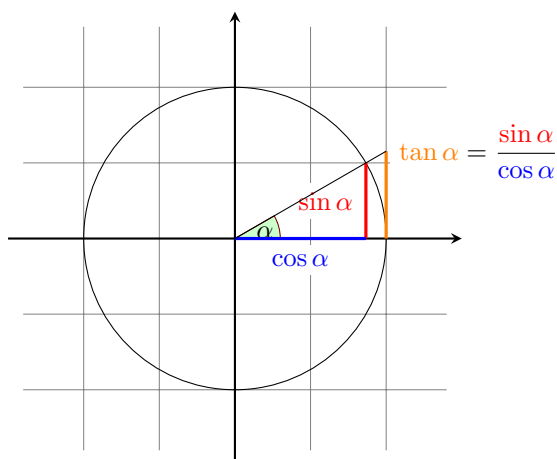
Task13: 使用 arc 选项绘制圆弧



Task14: 绘制正弦函数图像与其定义

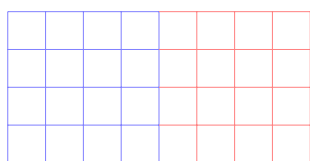
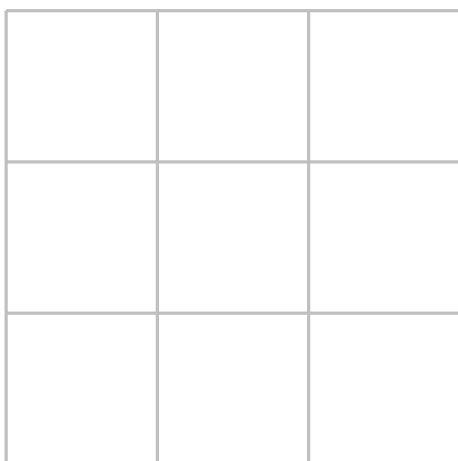


Task15: 设置样式绘制三角函数定义图



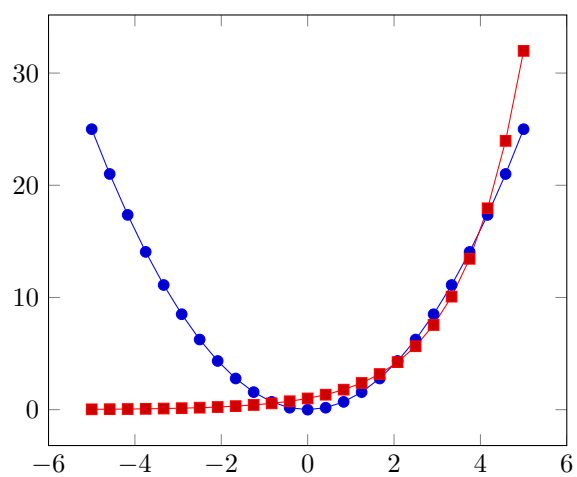
Task16: 基于样式设置进行绘图

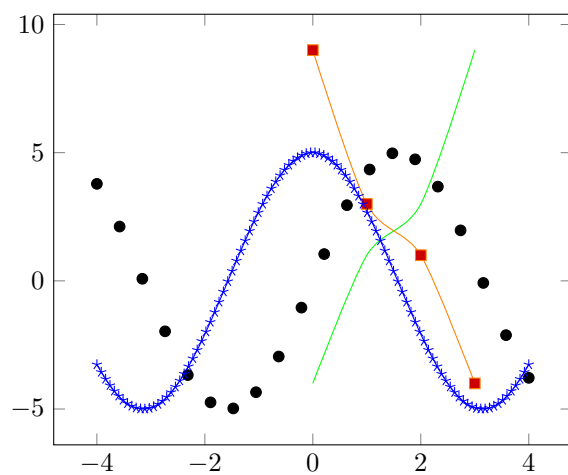
- 全局设置: 在导言区加入设置 `\tikzset{style_name/.style={options}}`.
- 局部设置: 在 `\tikzpicture` 环境内使用 `[style_name/.style={options}]` .
- 分层样式全局设置: `\tikzset{style_name1/.style={style_name2, options}}` .
- 分层样式局部设置: `[style_name1/.style={style_name2, options}]`.
- 分层样式与参数局部设置: `[style_name/.style={option1s}, style_name/.default={option2s}]`.



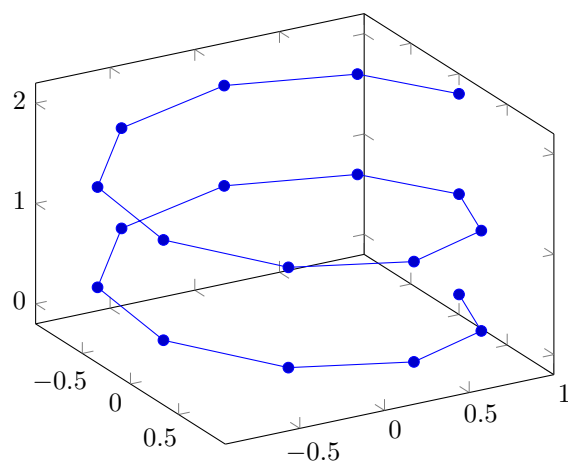
$$\int_a^b x dx$$

Task17: 基于 pgfplots 宏包进行绘图

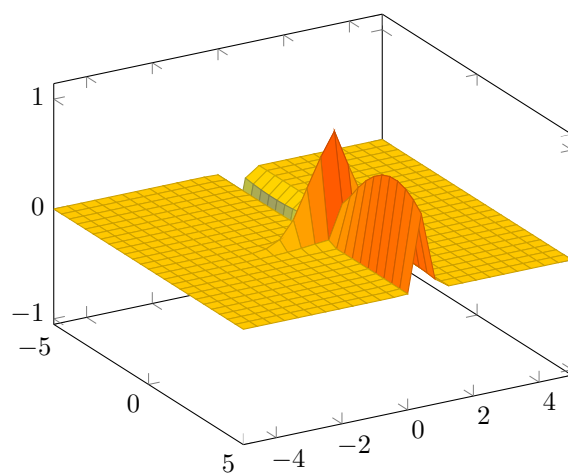




plots in radians



plots in Matlab



Task18:pgfplots 宏包绘图实战演练

