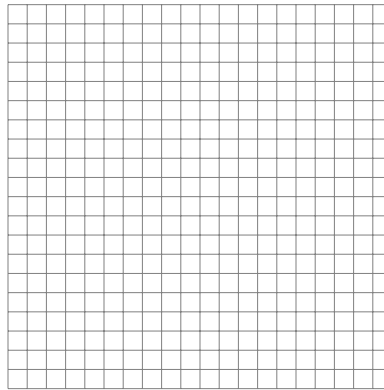
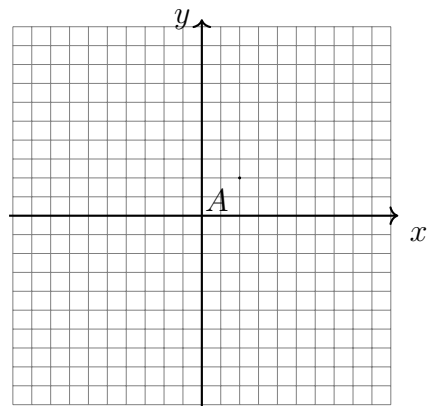
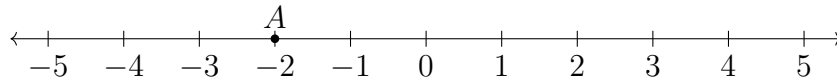


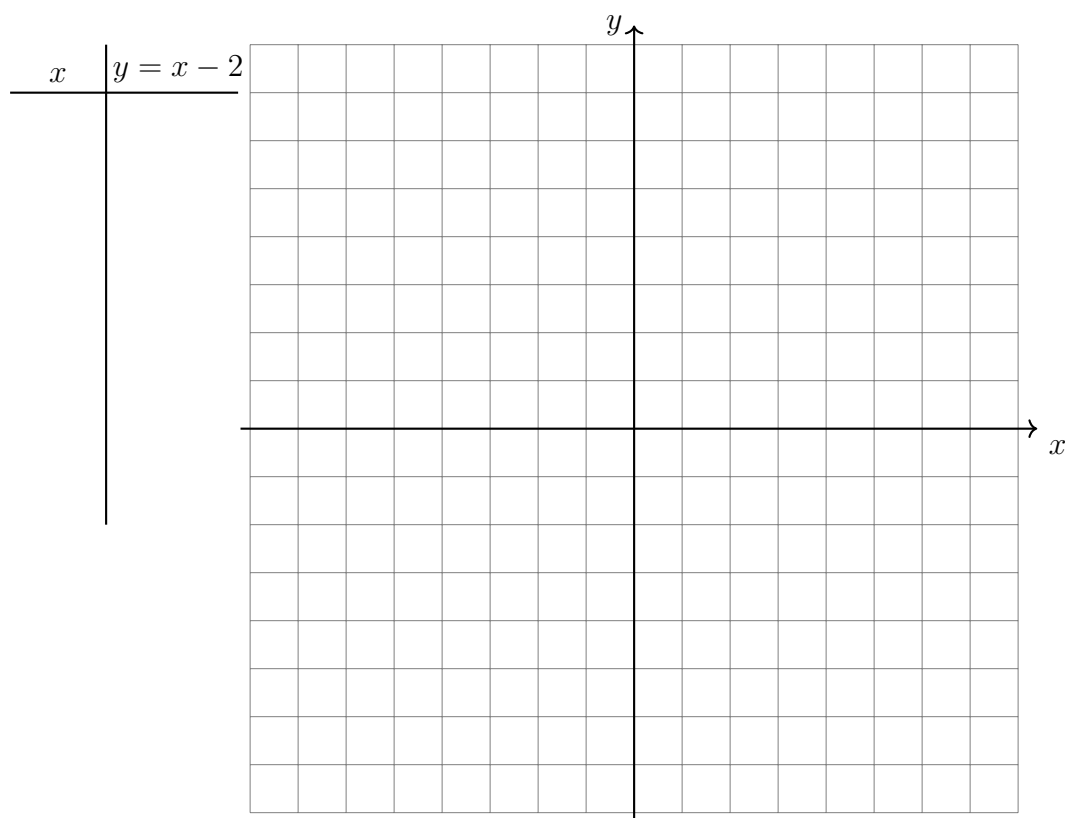
Graphs

tikz grid command

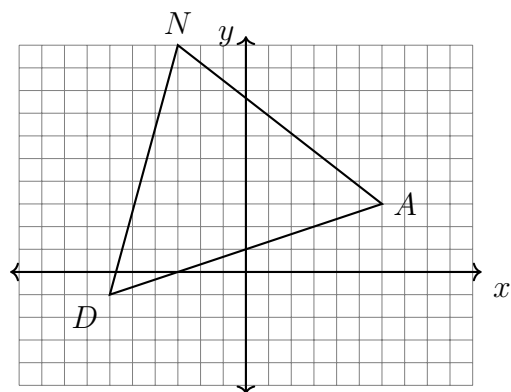


Axes





Triangle DAN is graphed on the set of axes below. The vertices of $\triangle DAN$ have coordinates $D(-6, -1)$, $A(6, 3)$, and $N(-3, 10)$.



What is the area of $\triangle DAN$?

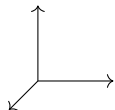
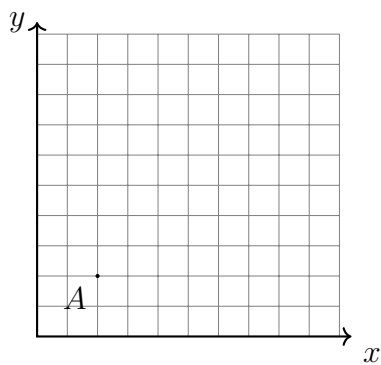
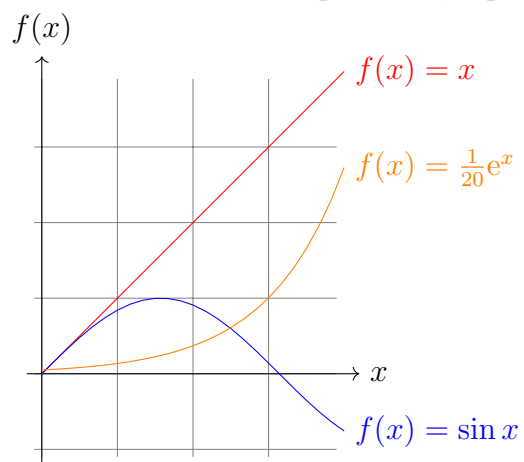


Figure 1: x and y axes for grid

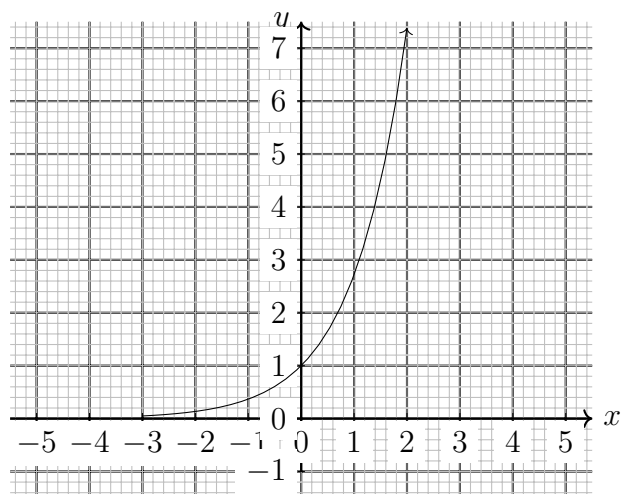


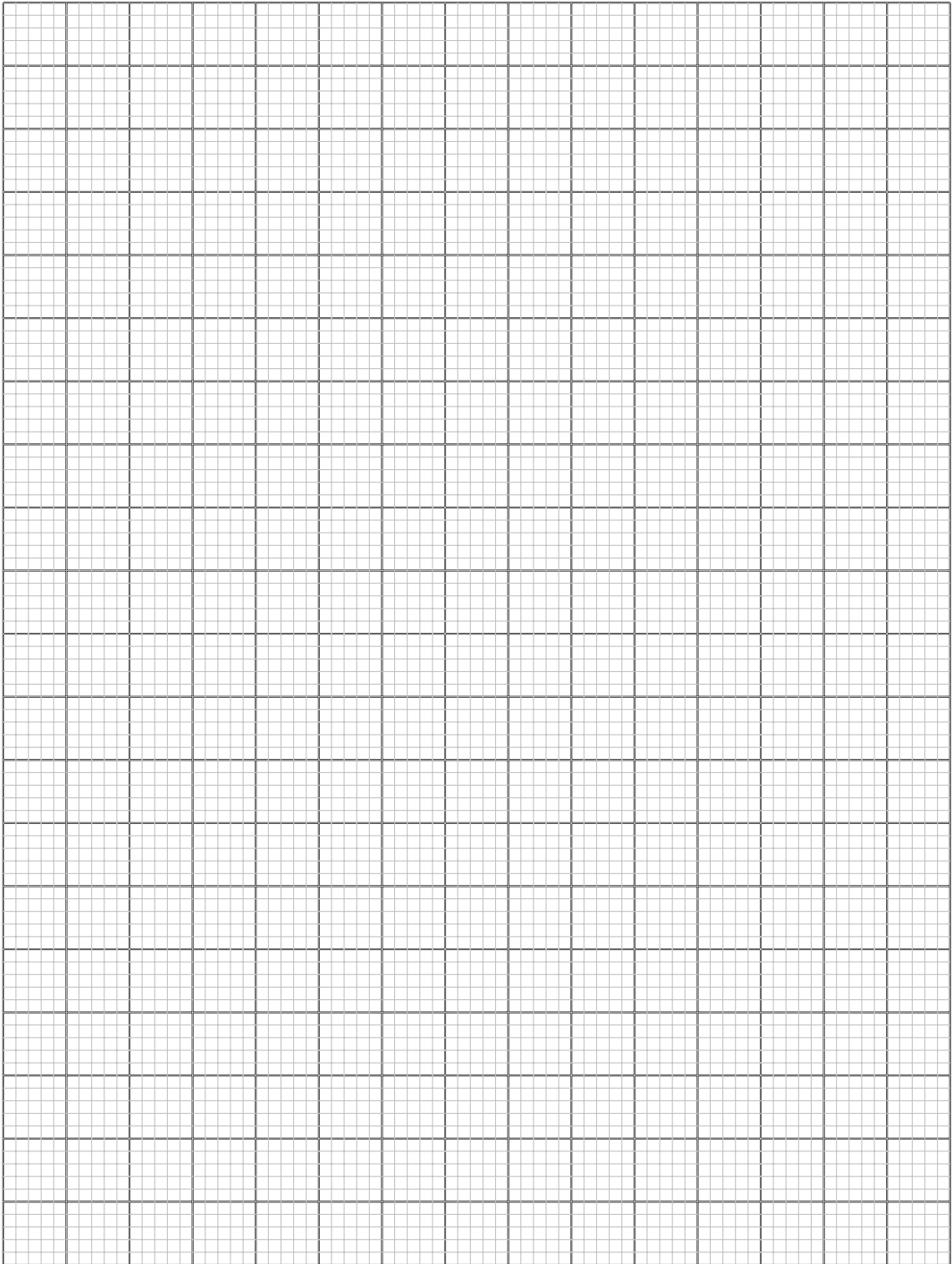
plot functions

Use brackets around expressions, especially those having parenthesis



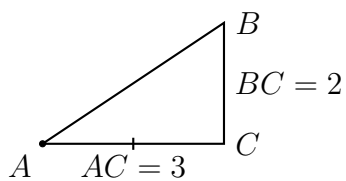
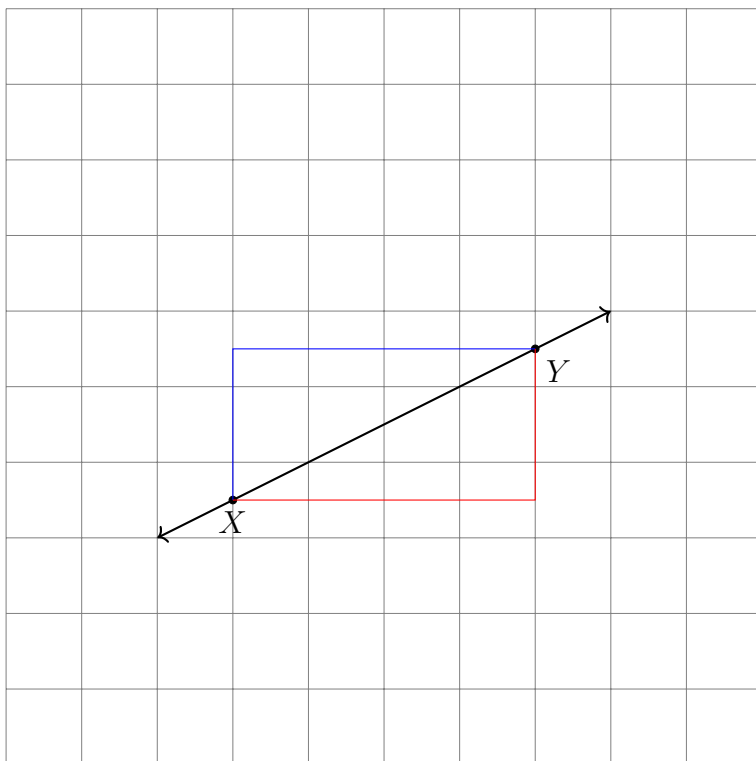
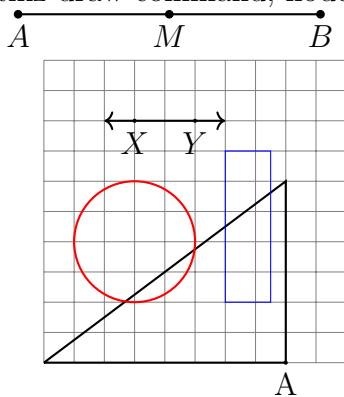
Axis numbering



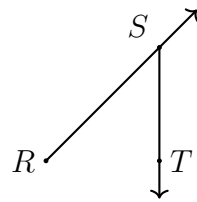
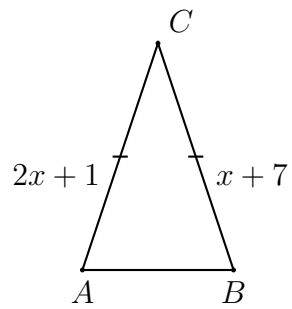


Drawing lines and shapes

tikz draw command, node labeling function

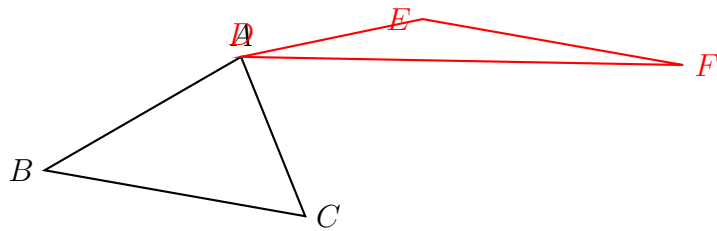


Given $\triangle ABC$ with $\overline{AC} \cong \overline{BC}$. $AC = x + 7$ and $BC = 2x + 1$. Find AC .

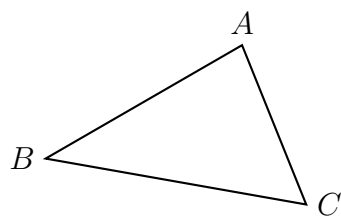
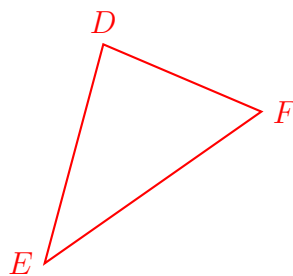


Triangles

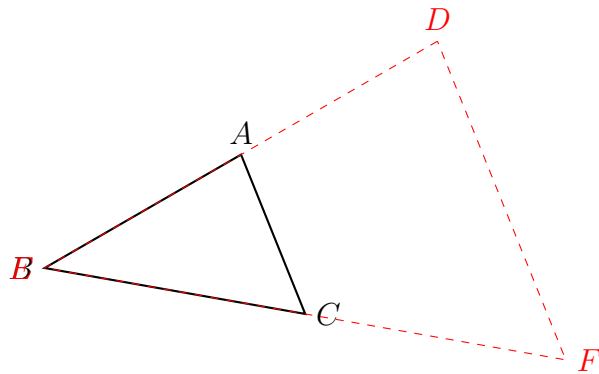
Shift using coordinates



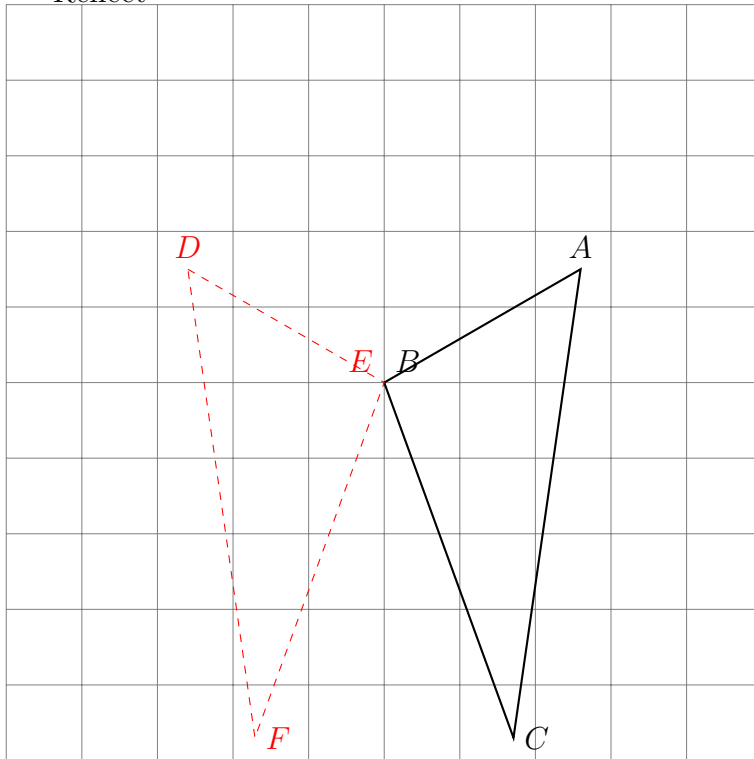
Shift and rotate



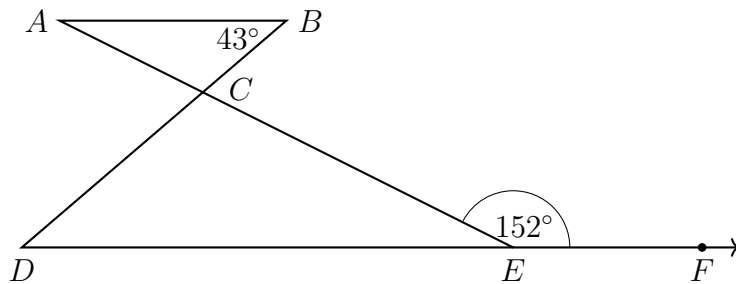
Scale

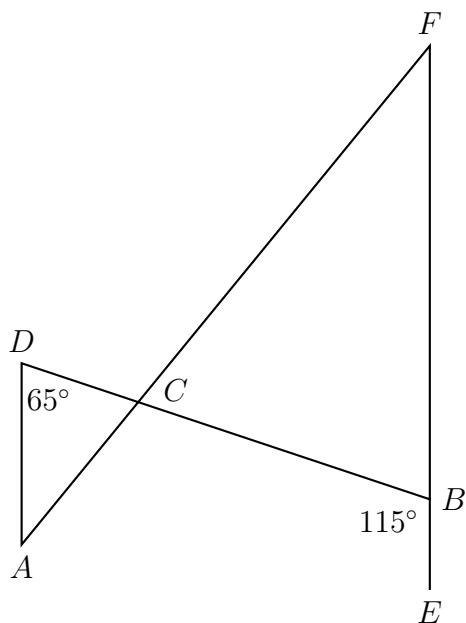


Reflect

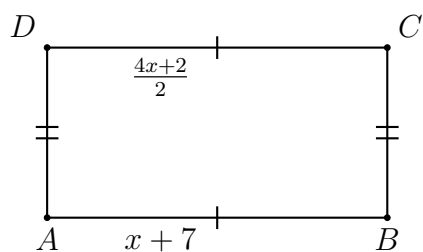


Complex Regents angle problems



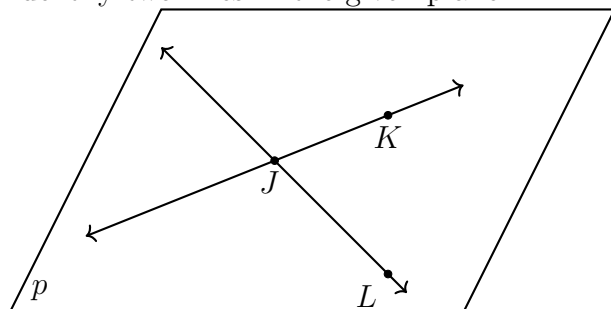


Given the rectangle $ABCD$ with $\overline{AB} \cong \overline{CD}$ and $\overline{BC} \cong \overline{DA}$. $AB = x + 7$ and $CD = \frac{4x + 2}{2}$. Find AB .

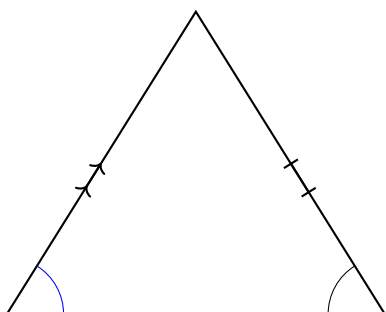
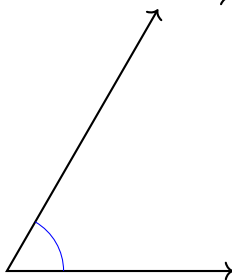
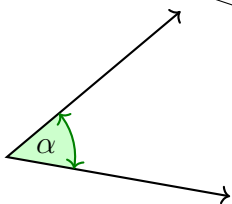
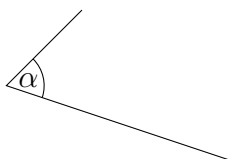
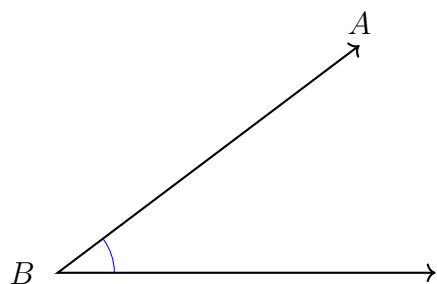


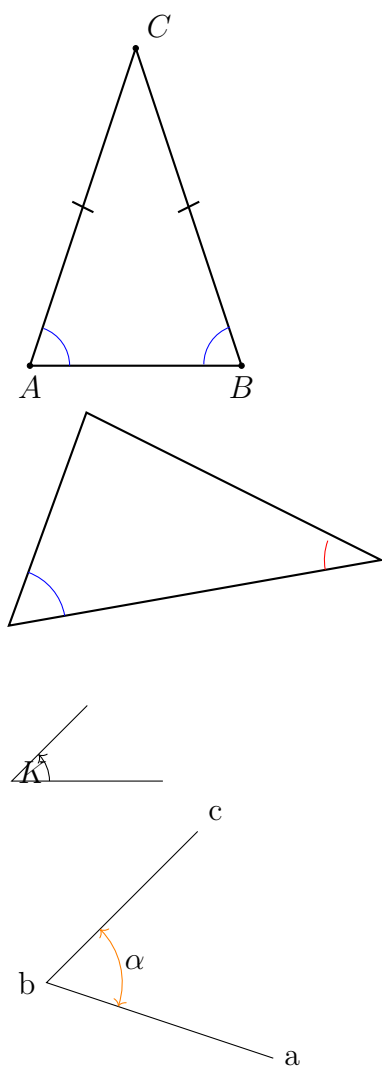
Plane geometry

Identify two lines in the given plane.



Marking angles





Circles

