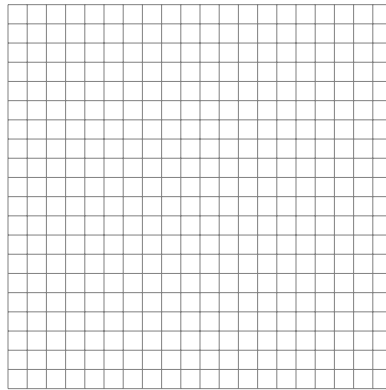
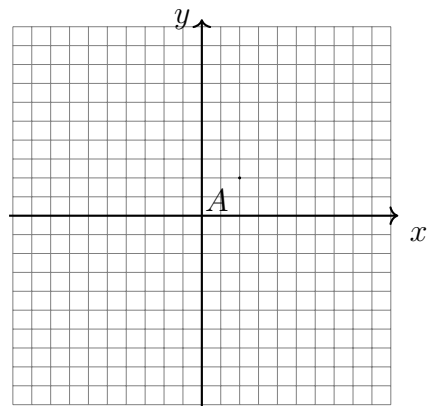
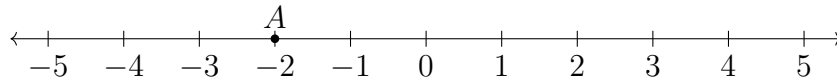


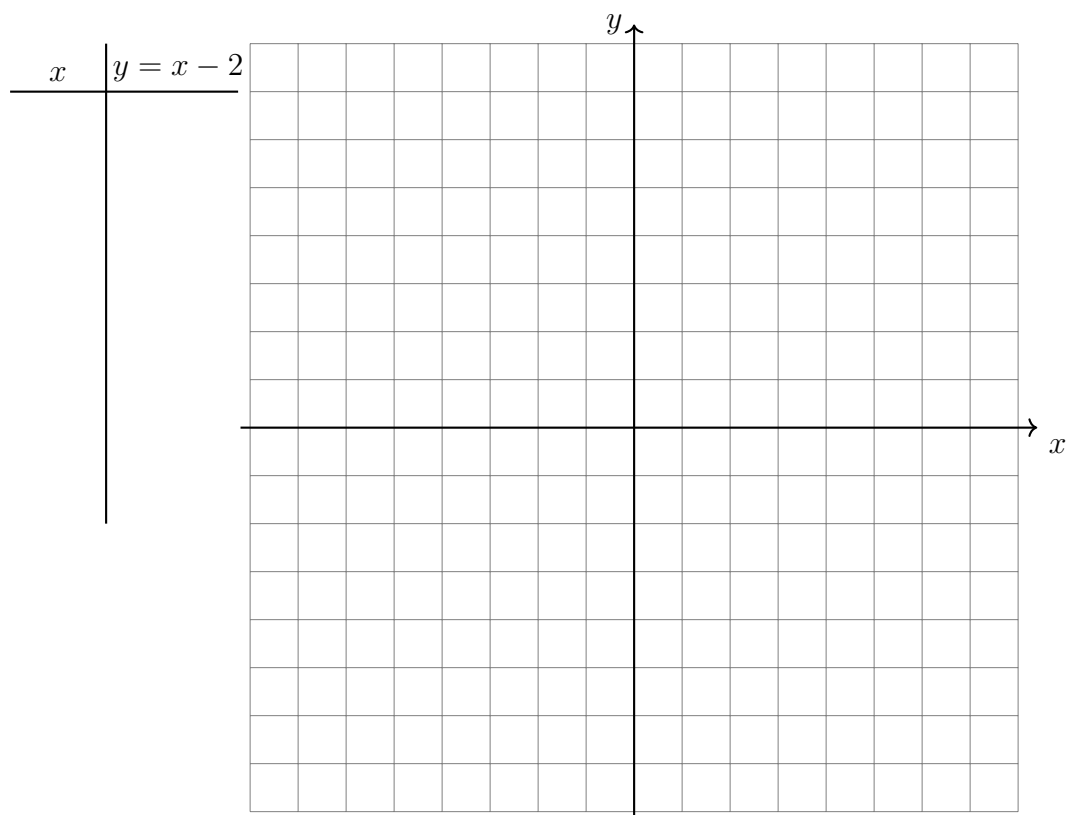
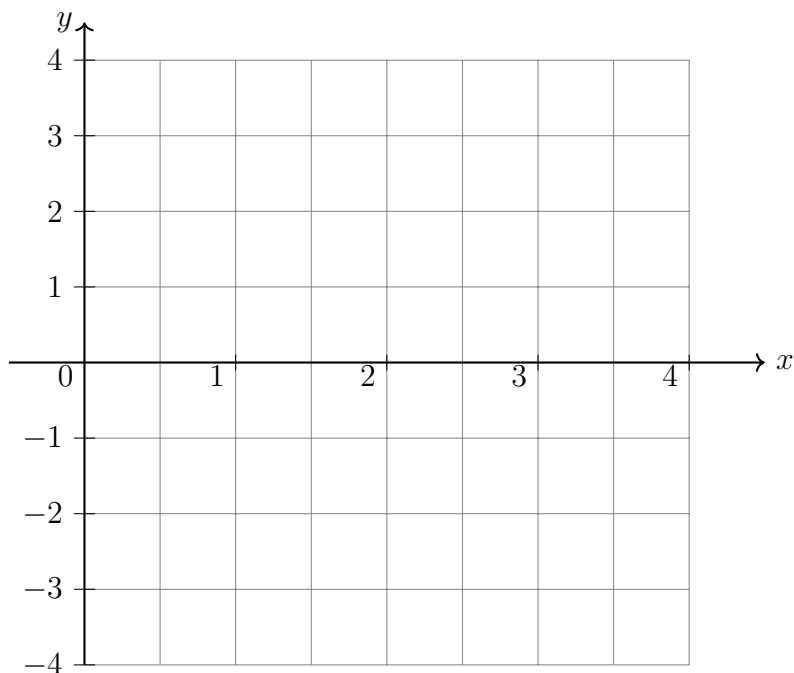
Graphs

tikz grid command



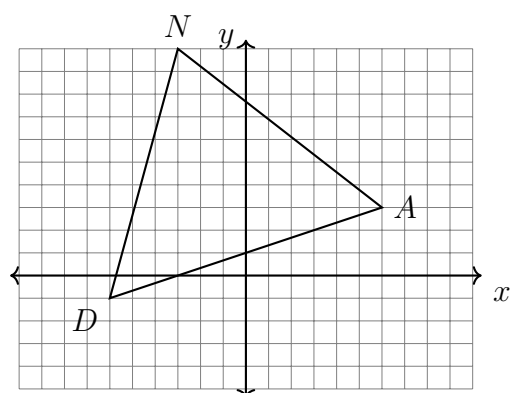
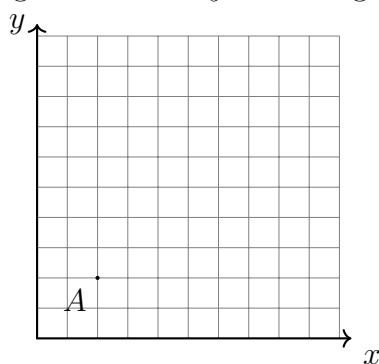
Axes



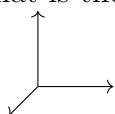


Triangle DAN is graphed on the set of axes below. The vertices of $\triangle DAN$ have coordinates $D(-6, -1)$, $A(6, 3)$, and $N(-3, 10)$.

Figure 1: x and y axes for grid



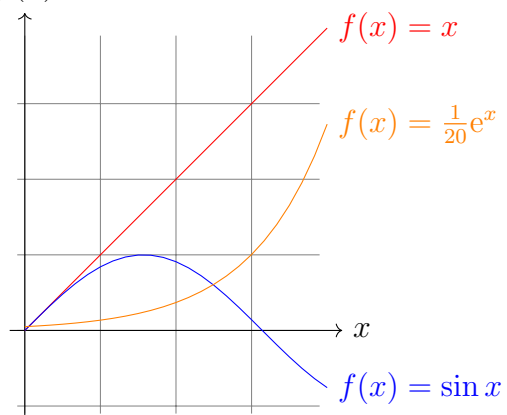
What is the area of $\triangle DAN$?



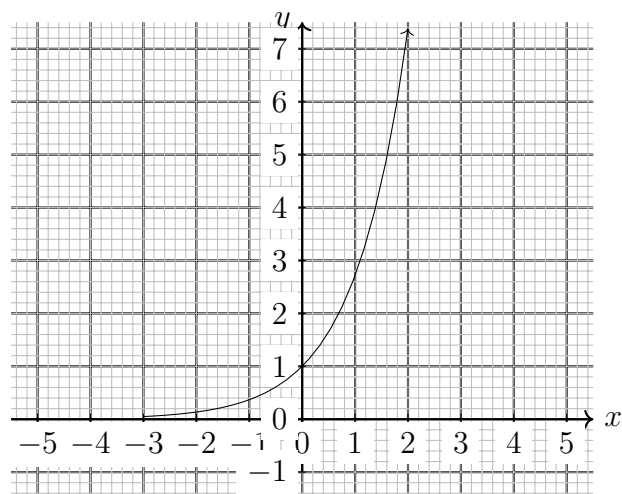
plot functions

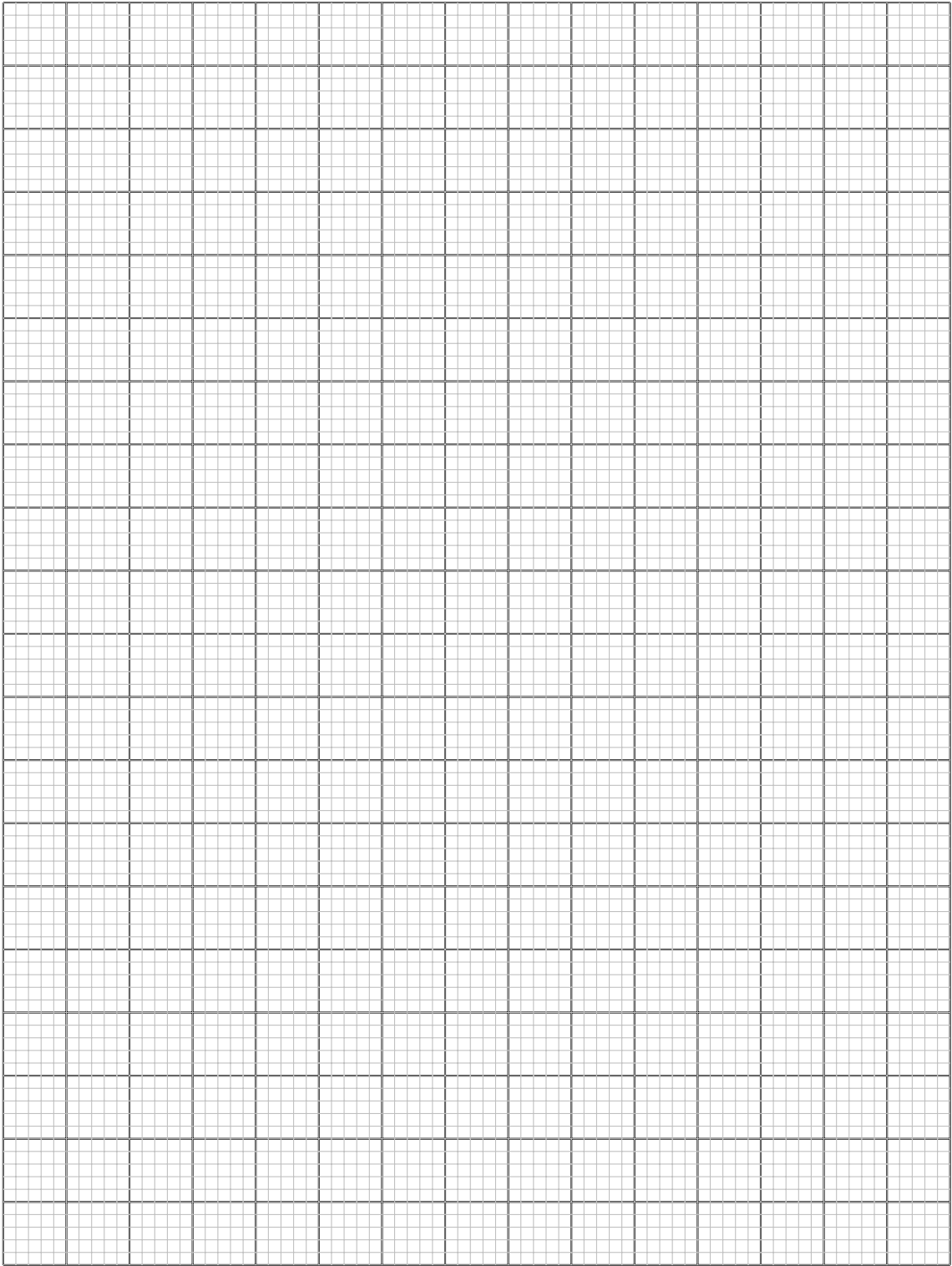
Use brackets around expressions, especially those having parenthesis

$f(x)$



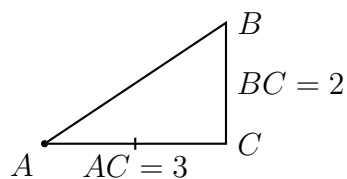
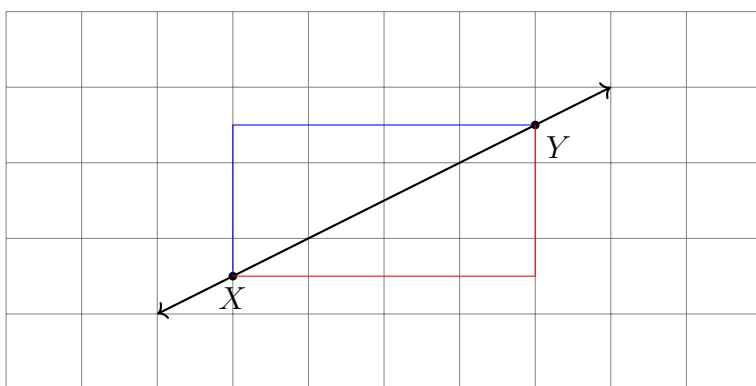
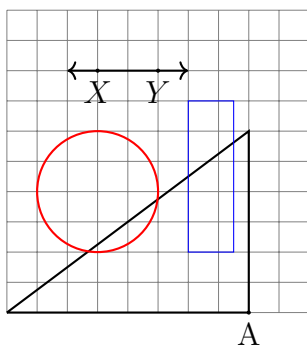
Axis numbering



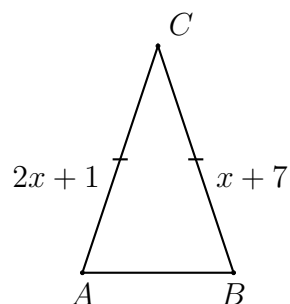


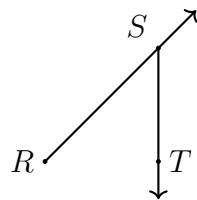
Drawing lines and shapes

tikz draw command, node labeling function



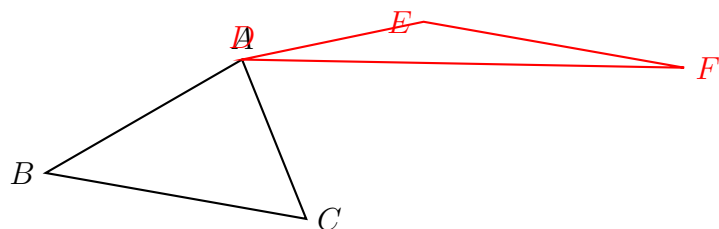
Given $\triangle ABC$ with $\overline{AC} \cong \overline{BC}$. $AC = x + 7$ and $BC = 2x + 1$. Find AC .



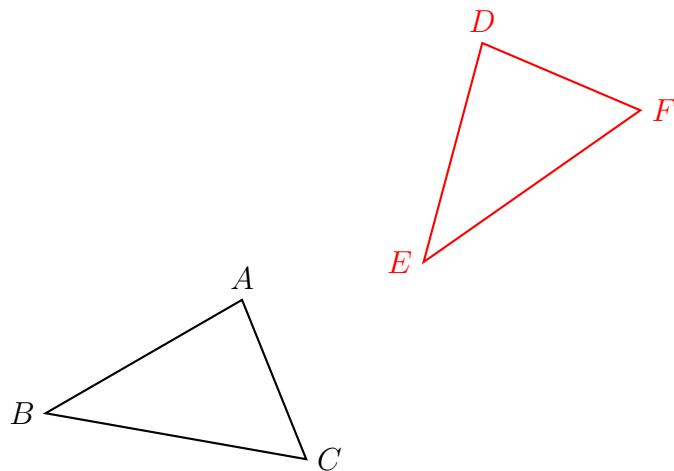


Triangles

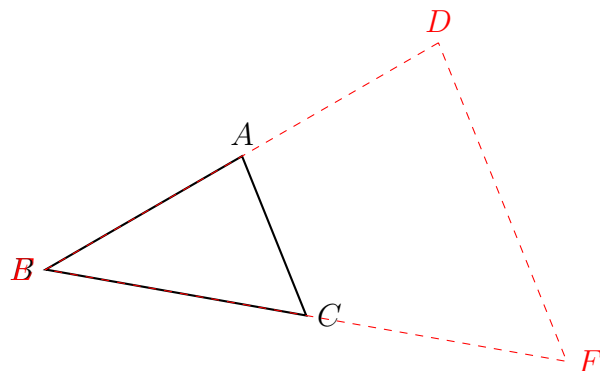
Shift using coordinates



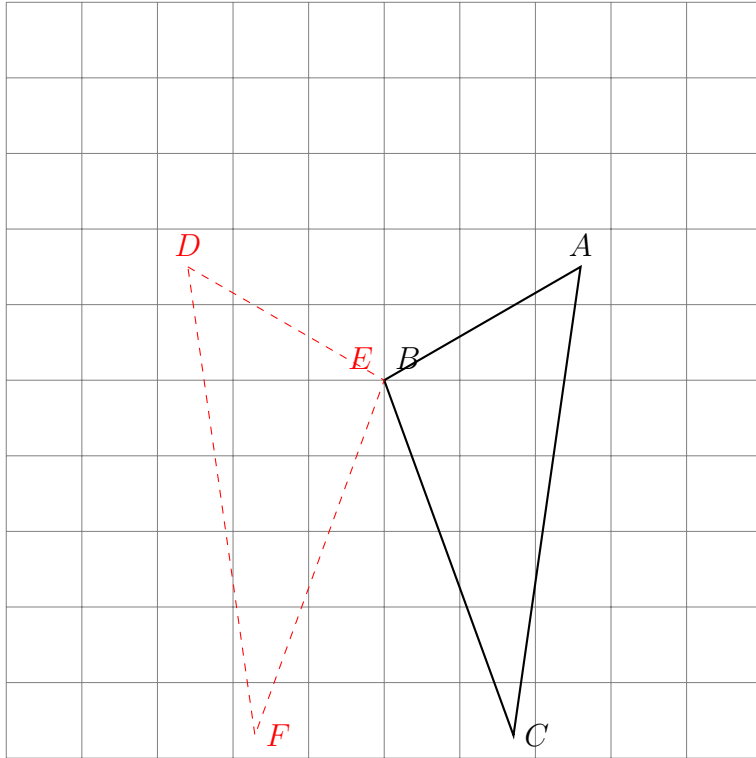
Shift and rotate



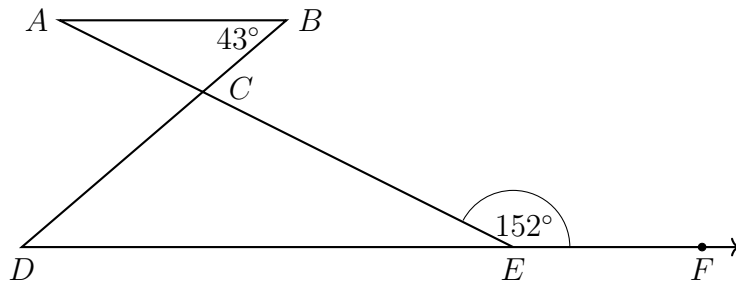
Scale

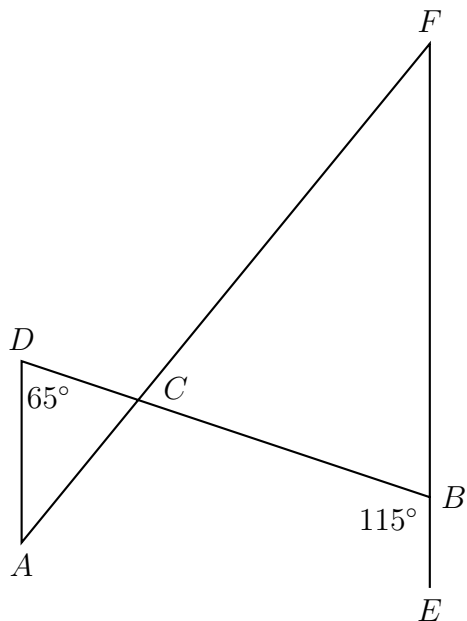


Reflect

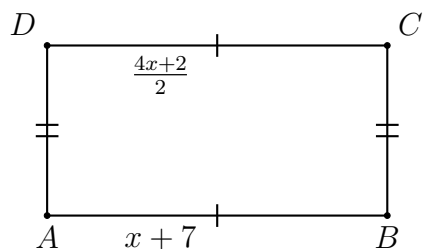


Complex Regents angle problems



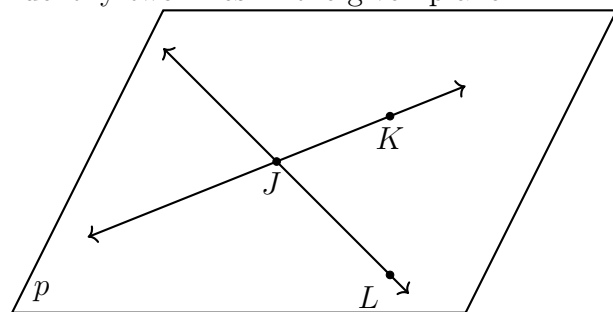


Given the rectangle $ABCD$ with $\overline{AB} \cong \overline{CD}$ and $\overline{BC} \cong \overline{DA}$. $AB = x + 7$ and $CD = \frac{4x + 2}{2}$. Find AB .

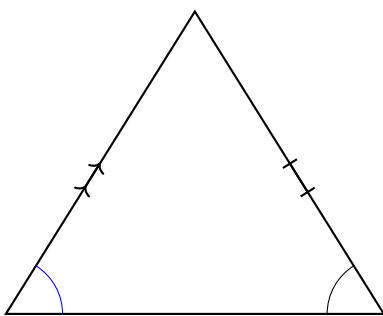
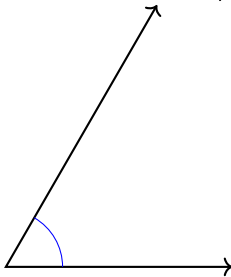
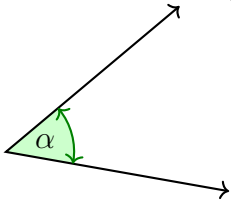
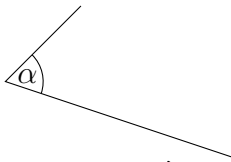
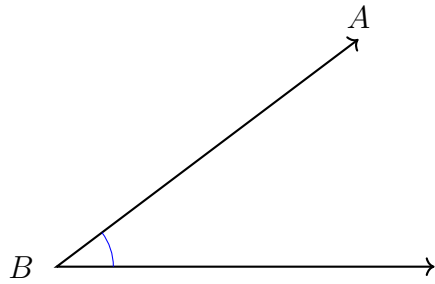


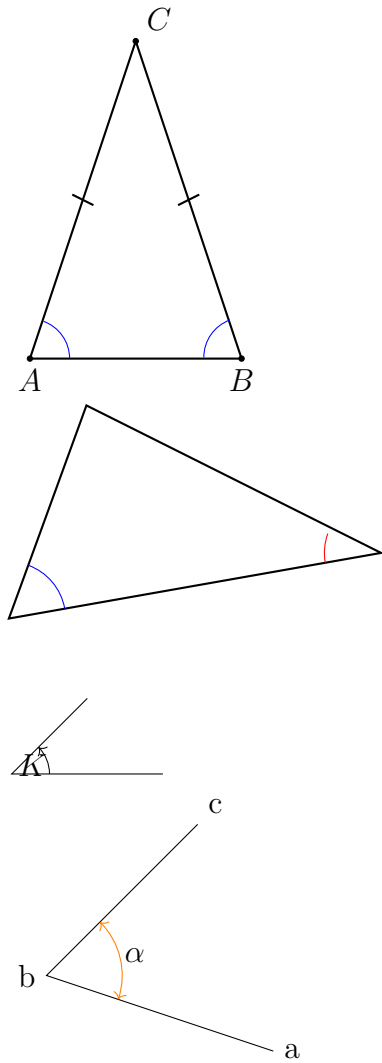
Plane geometry

Identify two lines in the given plane.

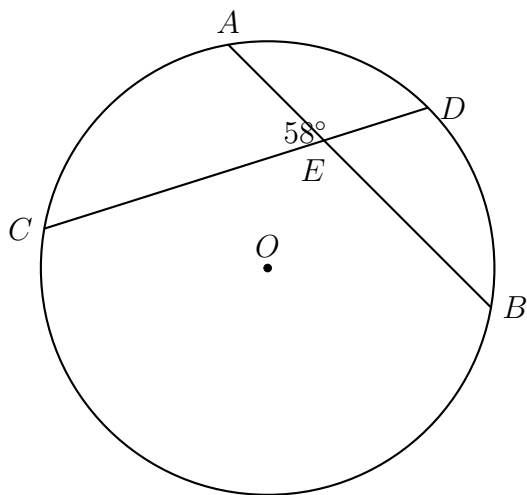
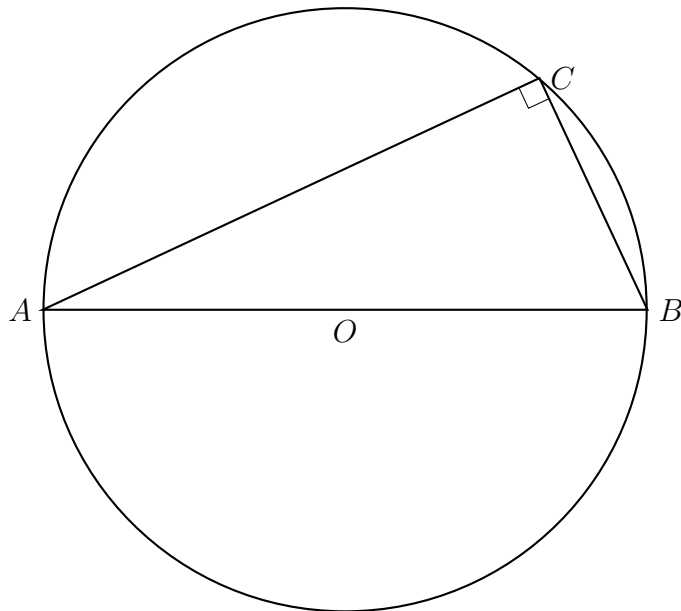


Marking angles

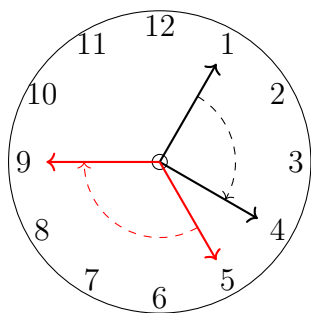




Circles

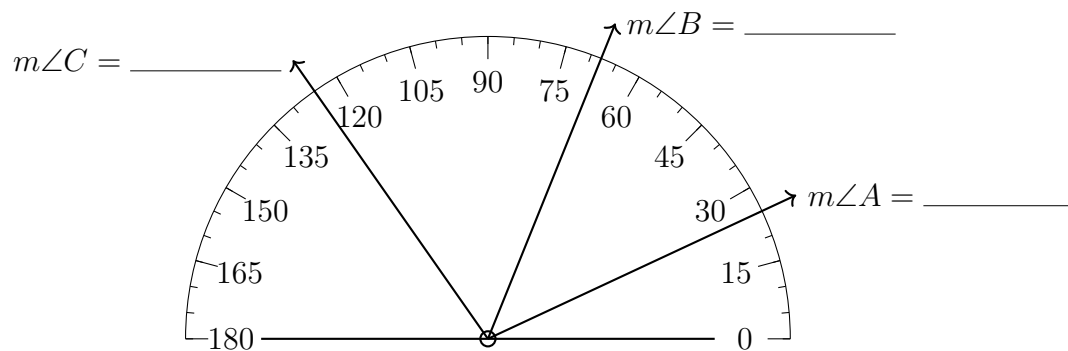


foreach examples (circular)



Clockface

Use the image of the protractor to measure each of the angles.



Images

