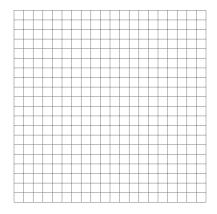
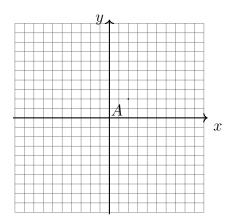
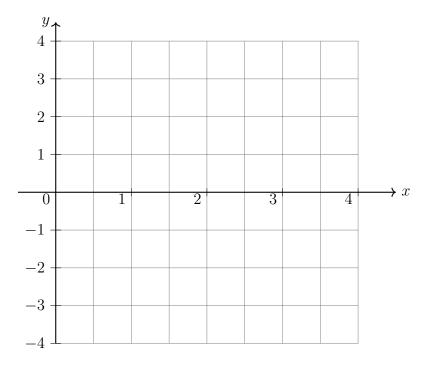
## Graphs

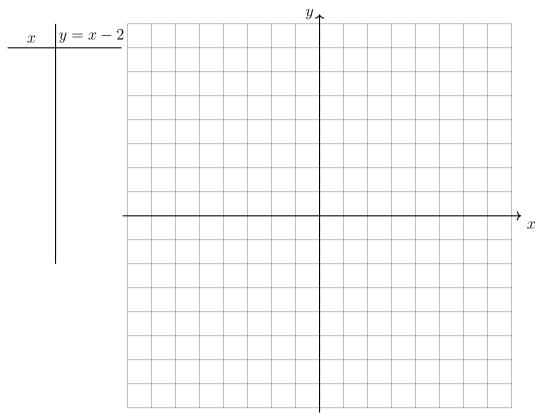
tikz grid command





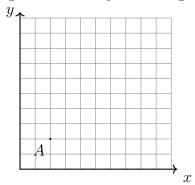


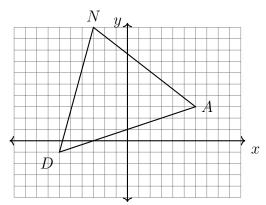




Triangle DAN is graphed on the set of axes below. The vertices of  $\triangle DAN$  have coordinates D(-6,-1), A(6,3), and N(-3,10).

Figure 1: x and y axes for grid



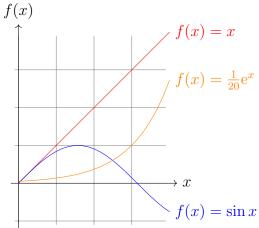


What is the area of  $\triangle DAN$ ?

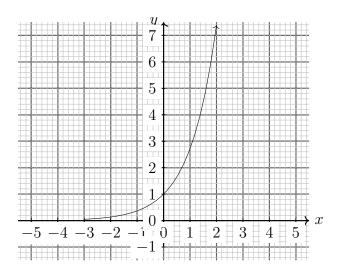


#### plot functions

Use brackets around expressions, especially those having parenthesis



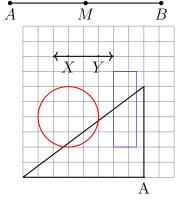
Axis numbering

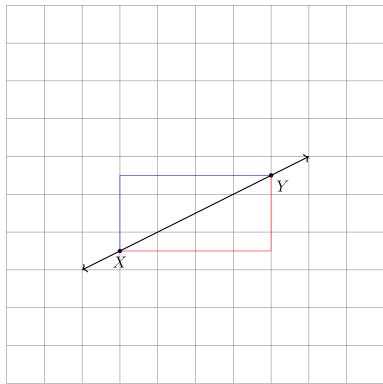


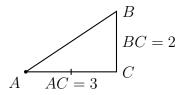
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#### Drawing lines and shapes

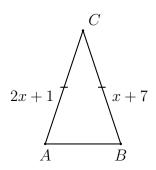
tikz draw command, node labeling function

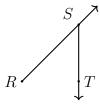






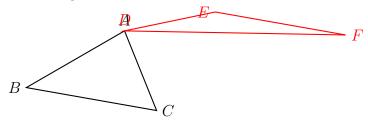
Given  $\triangle ABC$  with  $\overline{AC} \cong \overline{BC}$ . AC = x + 7 and BC = 2x + 1. Find AC.



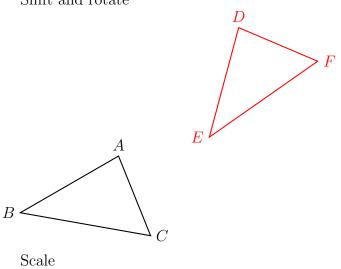


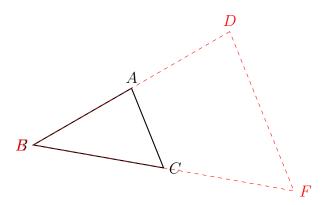
### Triangles

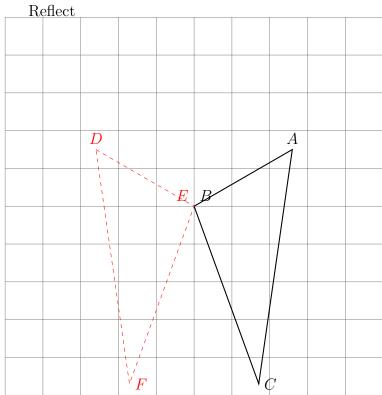
Shift using coordinates



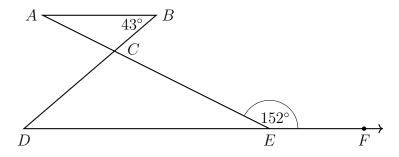
Shift and rotate

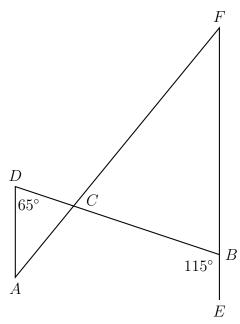




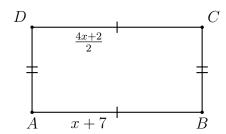


### Complex Regents angle problems



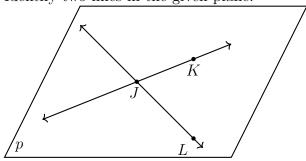


Given the rectangle ABCD with  $\overline{AB}\cong \overline{CD}$  and  $\overline{BC}\cong \overline{DA}$ . AB=x+7 and  $CD=\frac{4x+2}{2}$ . Find AB.

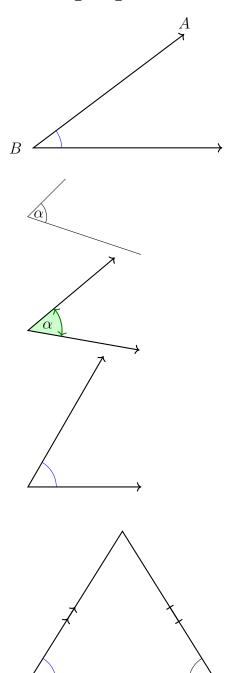


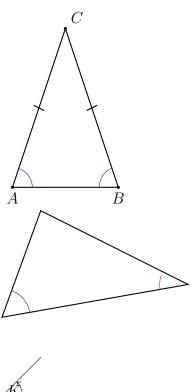
## Plane geometry

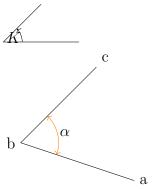
Identify two lines in the given plane.



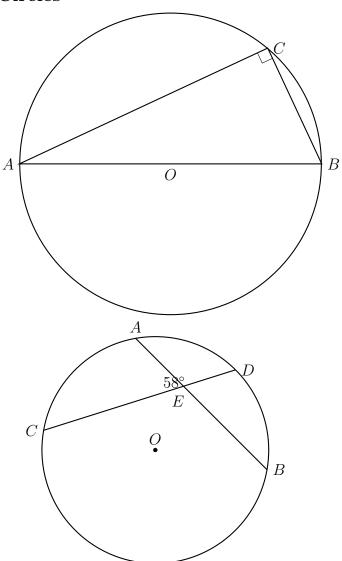
# Marking angles



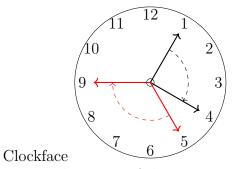




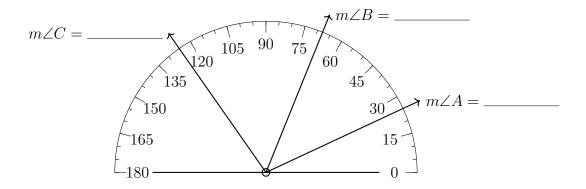
## Circles



#### foreach examples (circular)



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



### Images

