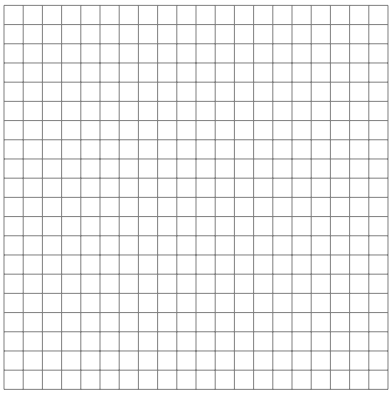
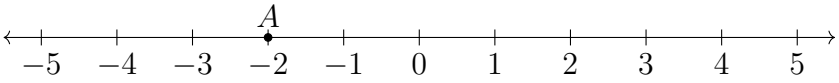
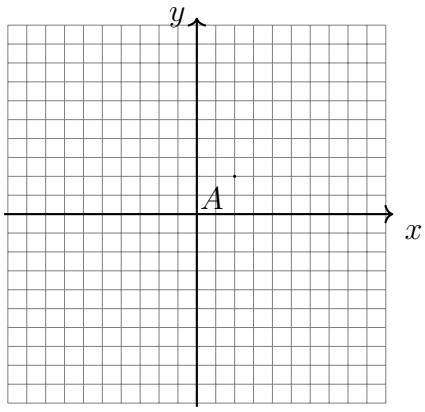
Graphs

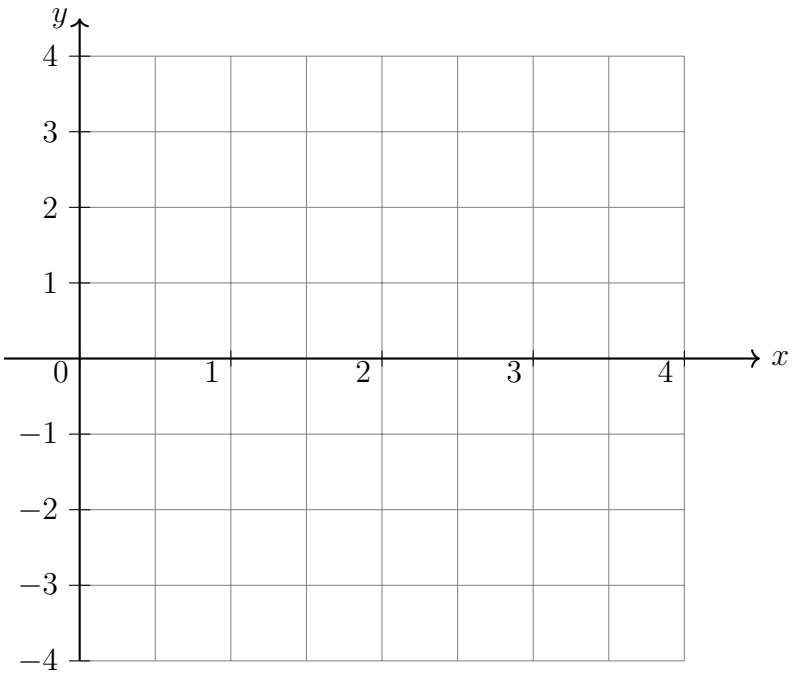
tikz grid command

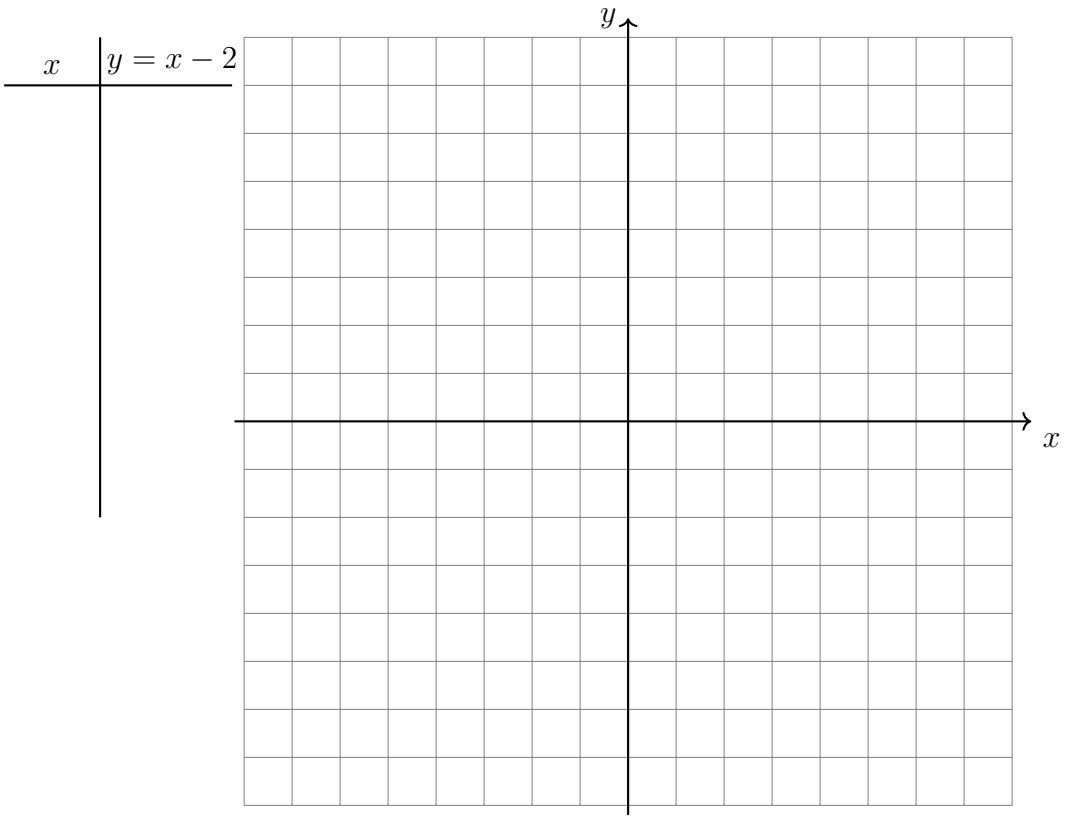


Axes



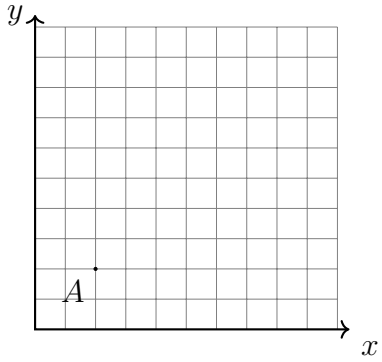


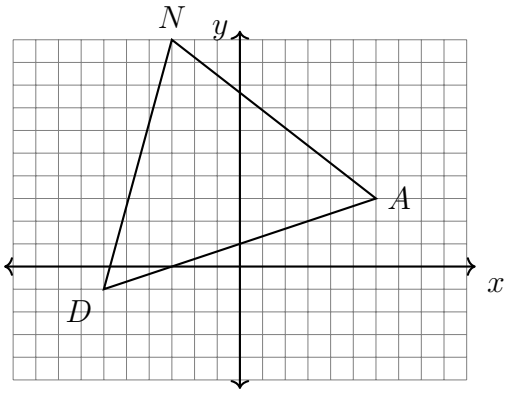




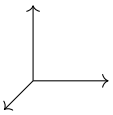
Triangle DAN is graphed on the set of axes below. The vertices of $\triangle DAN$ have coordinates $D(-6,-1), A(6,3),$ and $N(-3,10)$.

Figure 1: x and y axes for grid





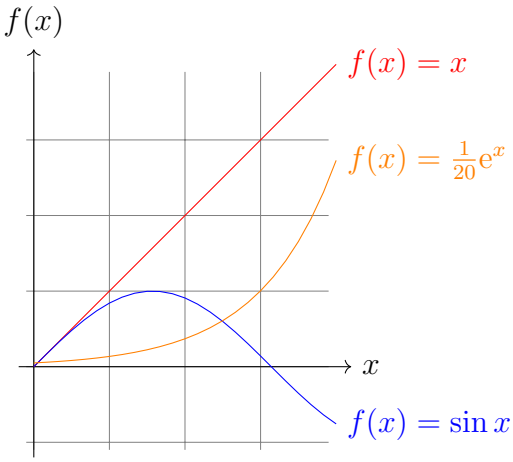
What is the area of $\triangle DAN$?



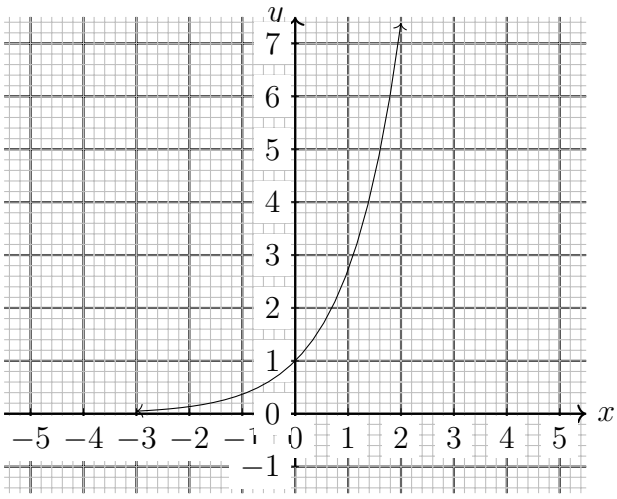
plot functions

Use brackets around expressions, especially those having parenthesis

Axis degrees conversion to radian measure for plot trig function “r”

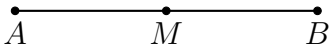


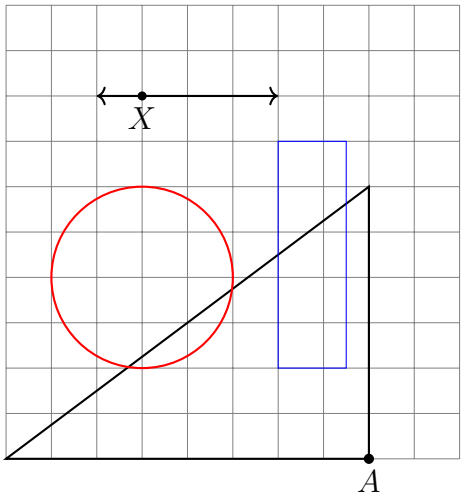
Axis numbering, with fill to cover fine grid line background

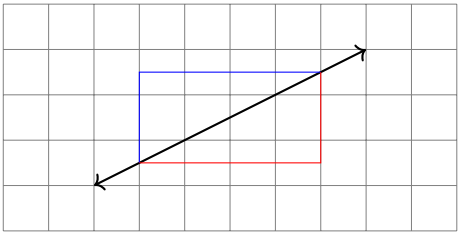


Drawing lines and shapes

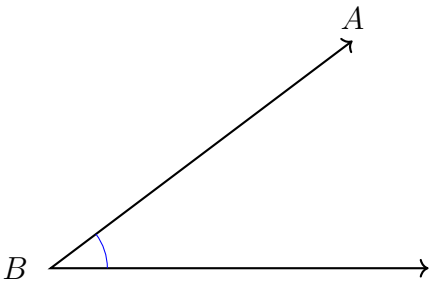
tikz draw command, node labeling function



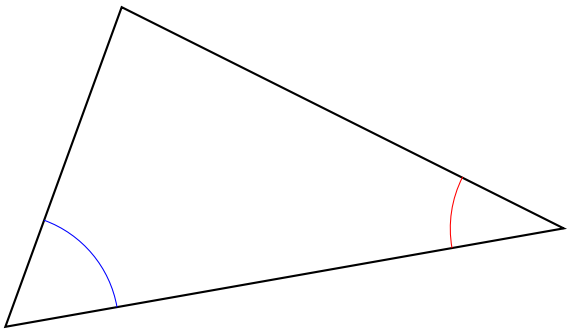




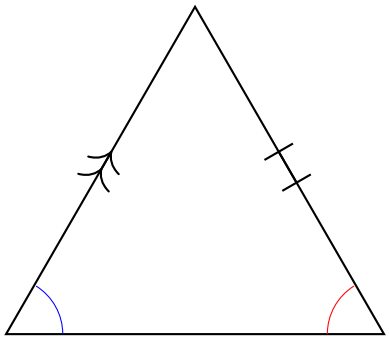
Marking angles



Negative arc radius

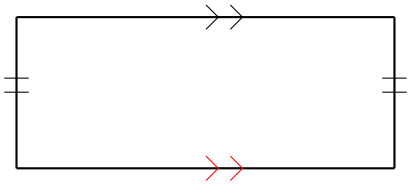


Isosceles, parallel marks, congruence marks, scaled arrows

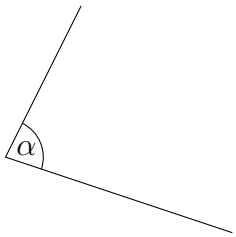


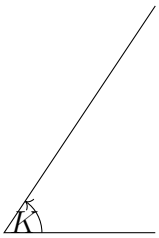
centered text

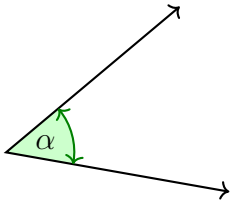
Tick mark commands

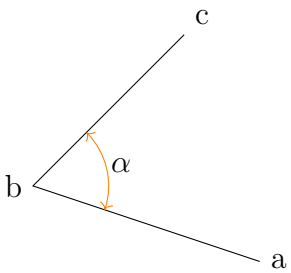


Using coordinates and "pic" command

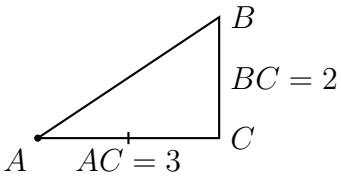


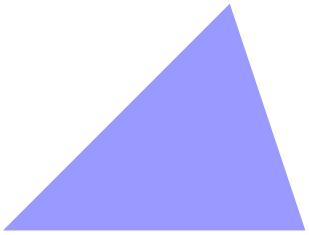




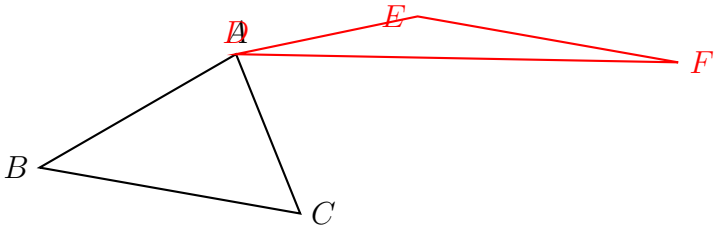


Triangles

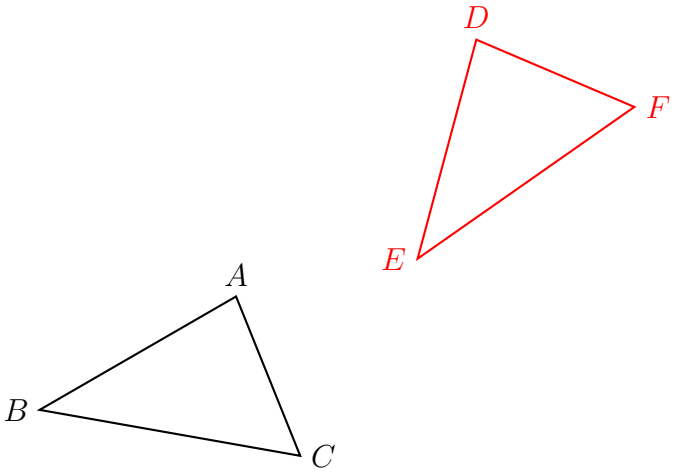




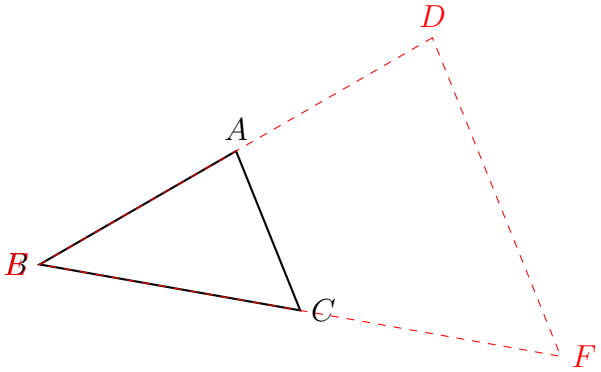
Shift using coordinates



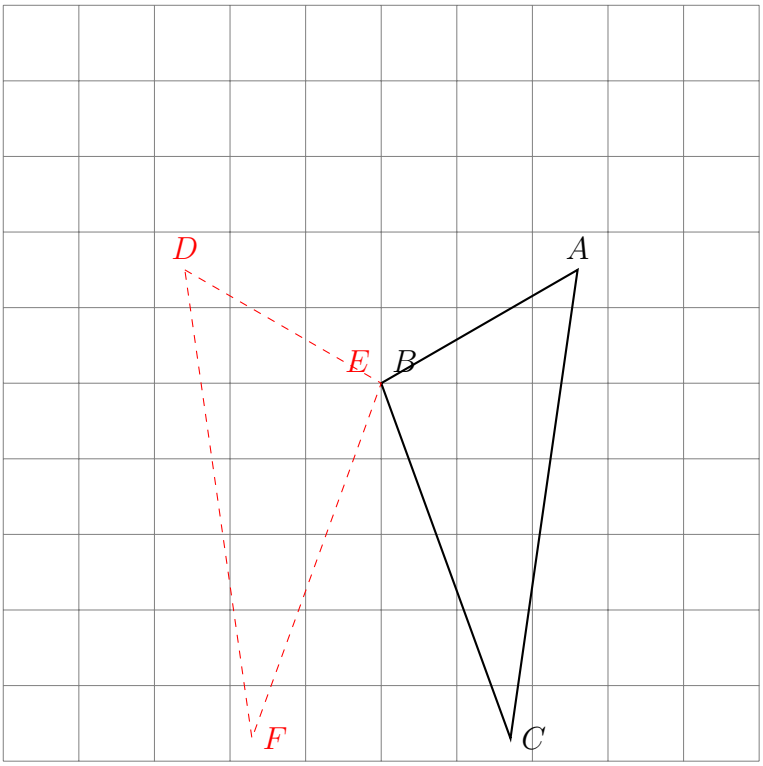
Shift and rotate



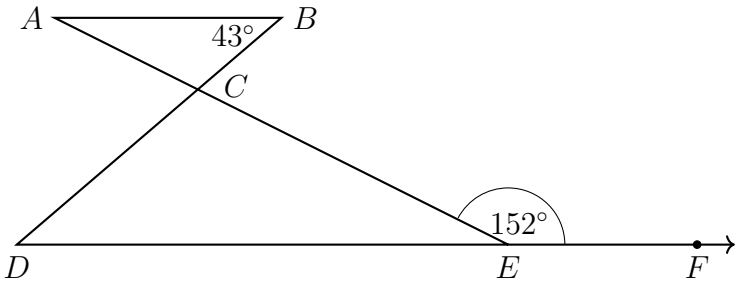
Scale

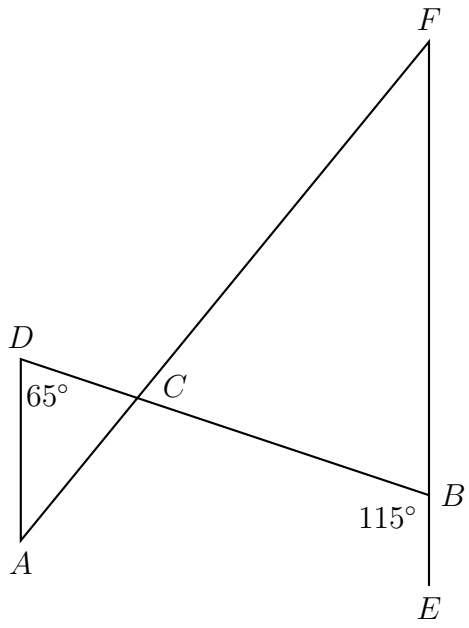


Reflect

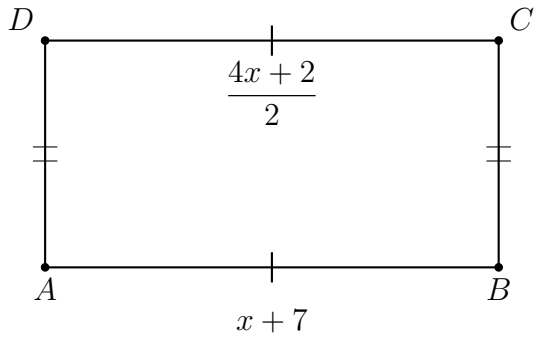


Complex Regents angle problems



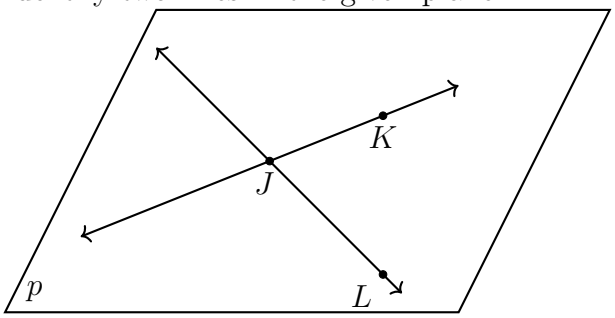


Rectangle

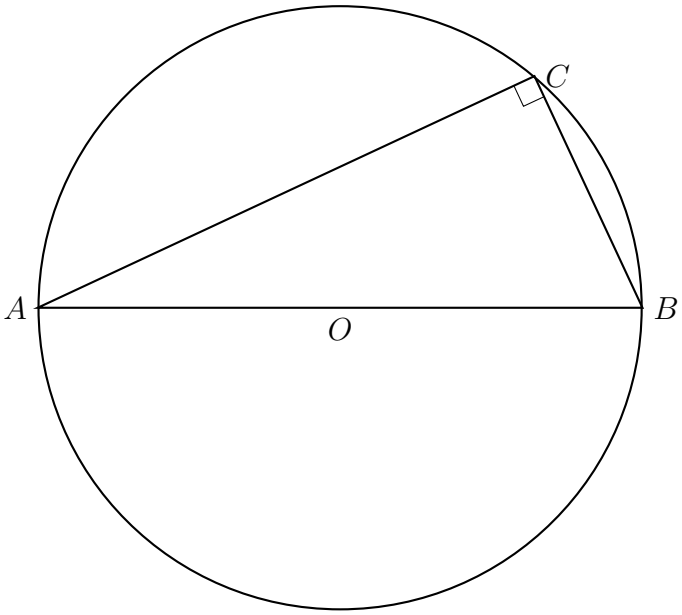


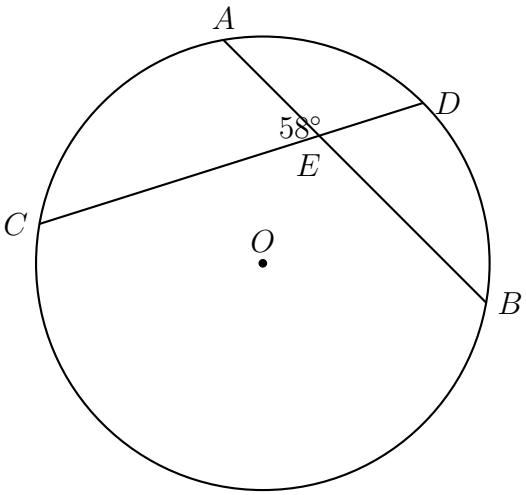
Plane geometry

Identify two lines in the given plane.

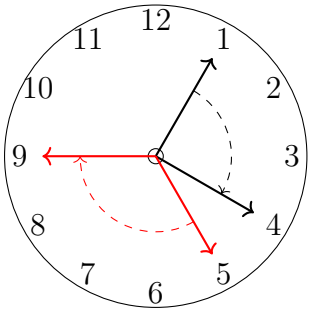


Circles



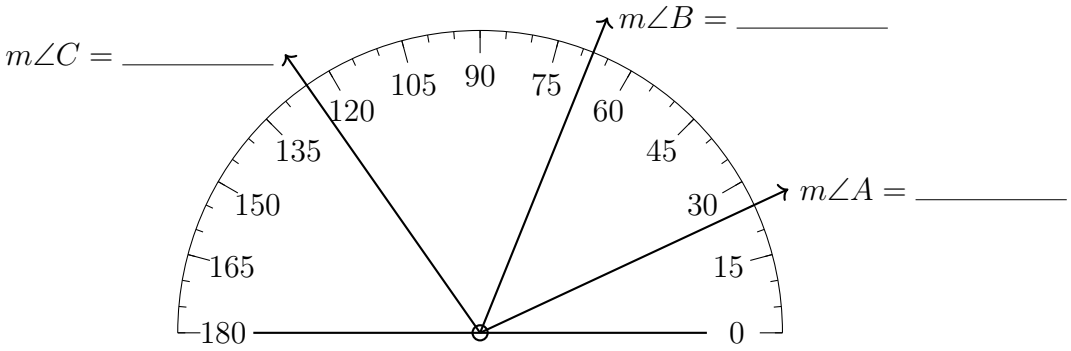


foreach examples (circular)

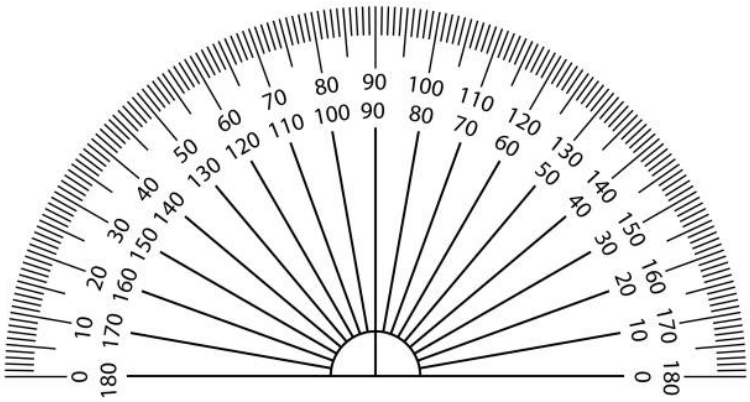


Clockface

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


$m\angle C =$ _____
$m\angle B =$ _____
$m\angle A =$ _____
180
165
150
135
120
105
90
75
60
45
30
15
0

Images



IB Graph paper