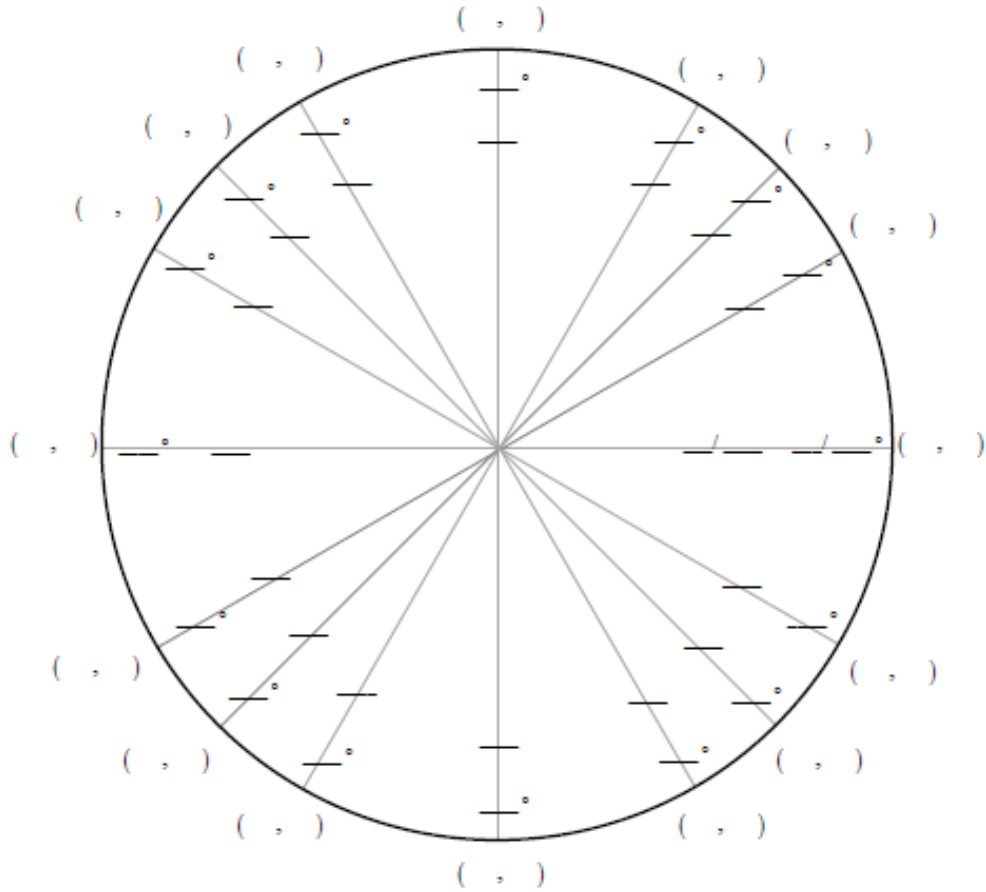


Name:
 Group 1
 Result:

1. *(4 points)*
 Fill in the parts of the unit circle corresponding to the angles 135° , 210° , 270° and 300° .



Write down the values of:

$\sin 135^\circ =$

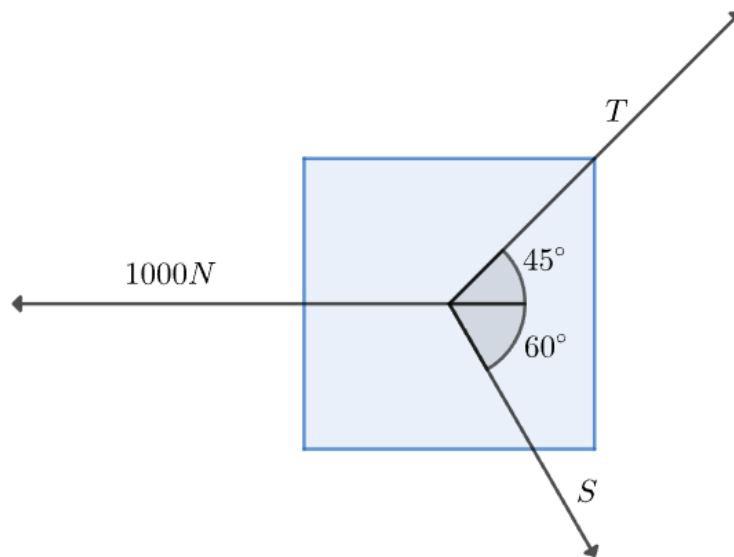
$\cos 210^\circ =$

$\sin 270^\circ =$

$\cos 300^\circ =$

2.*(4 points)*

Three forces act on an object as shown on the diagram.

Given that the object is stationary find the forces T and S .

3.*(8 points)*

Solve the following equations:

a) $\sin \alpha = \frac{\sqrt{3}}{2}$

b) $\cos \beta = -\frac{1}{2}$

c) $\cos \gamma = -1$

d) $\sin \delta = -3$