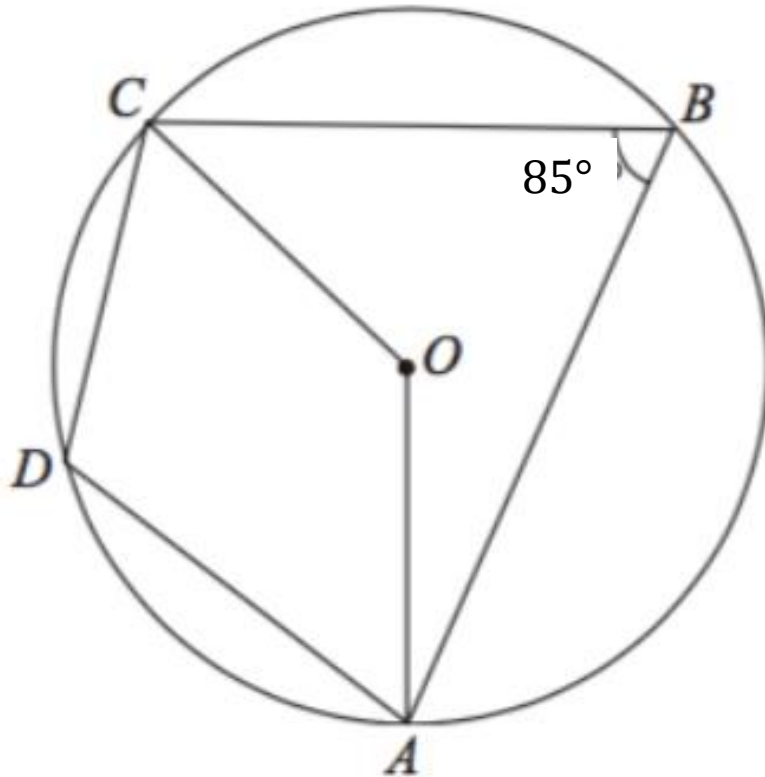


Circle theorems

[CONTENTS](#)

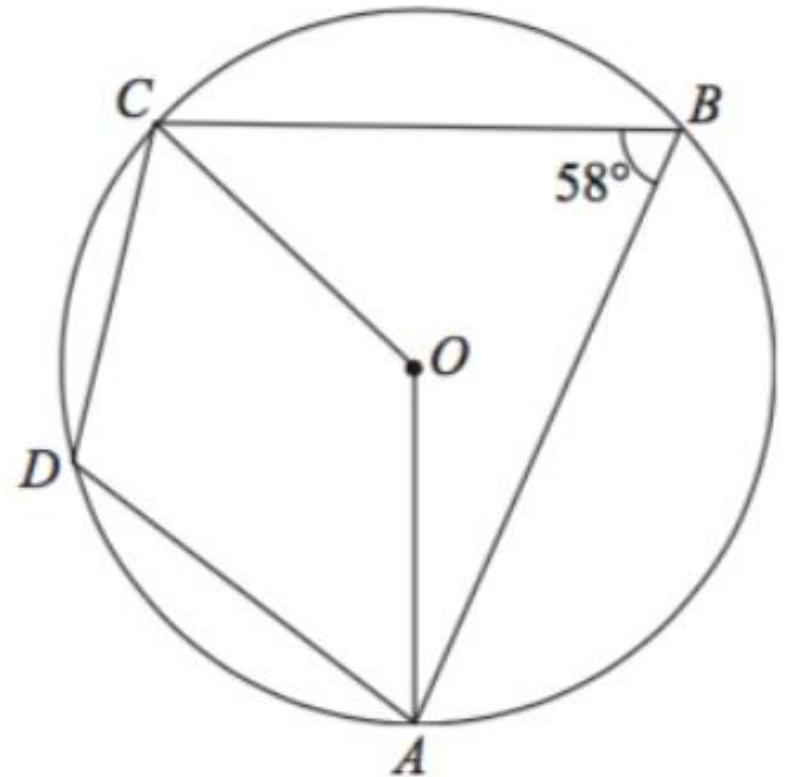
Worked example

Calculate the obtuse angle AOC



Your turn

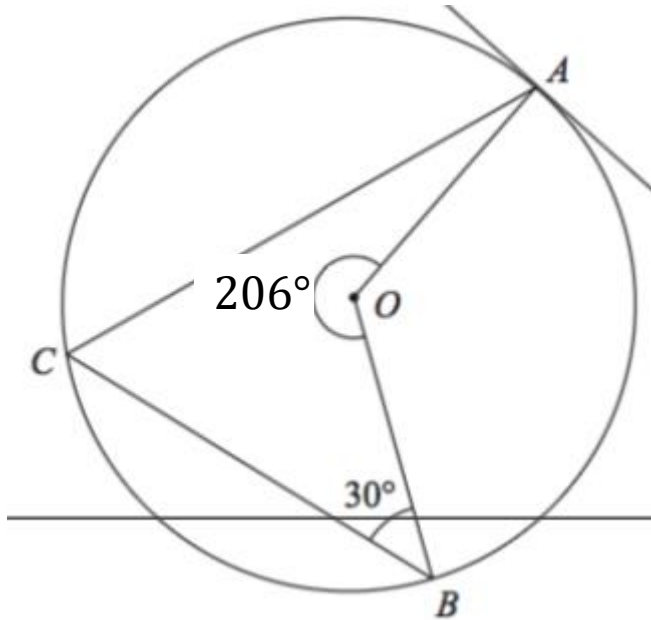
Calculate the obtuse angle AOC



116°

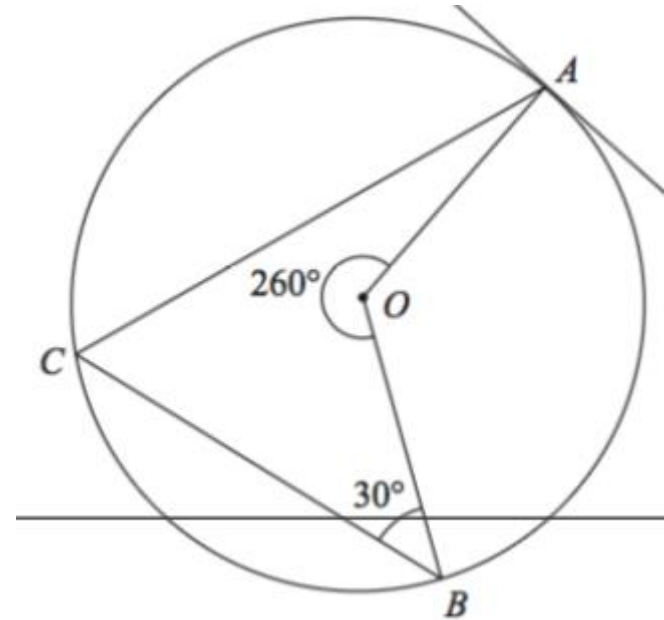
Worked example

Calculate the size of angle ACB



Your turn

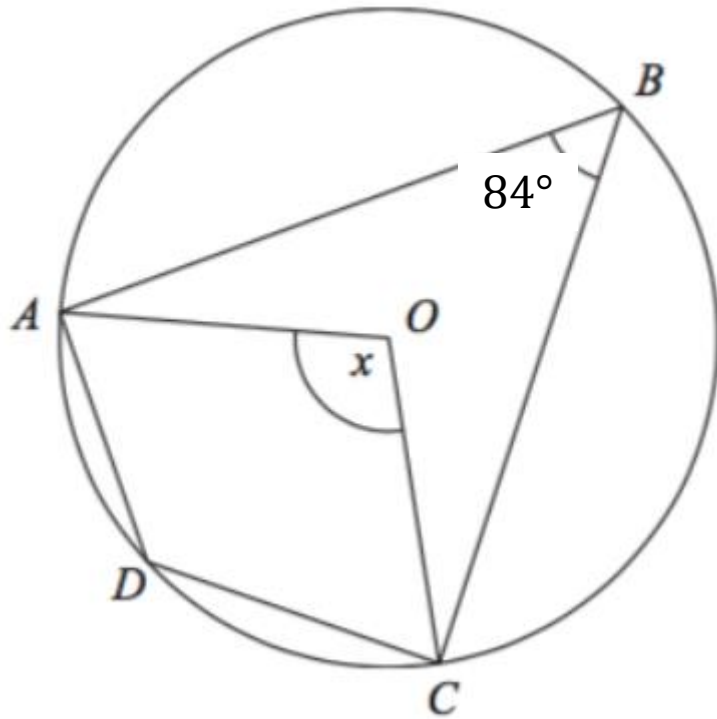
Calculate the size of angle ACB



50°

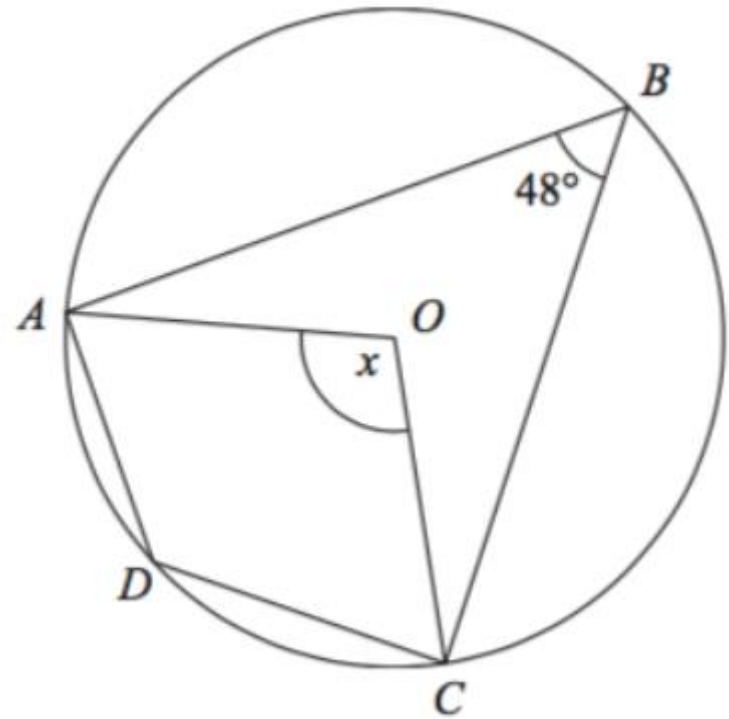
Worked example

Calculate the size of angle ADC



Your turn

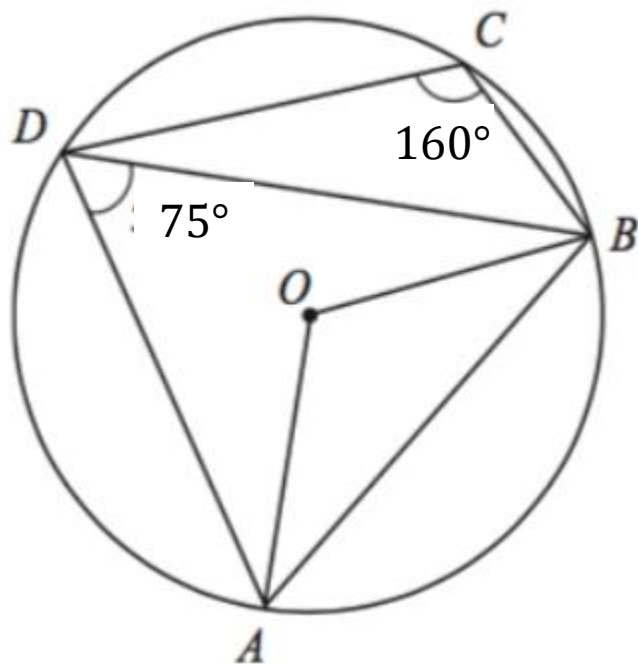
Calculate the size of angle ADC



132°

Worked example

Calculate the size of:

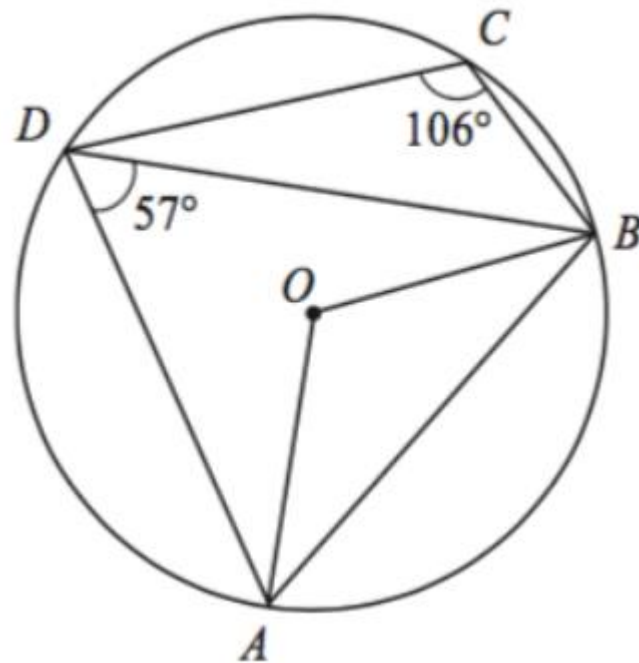


Angle BAD

Angle ABC

Your turn

Calculate the size of:

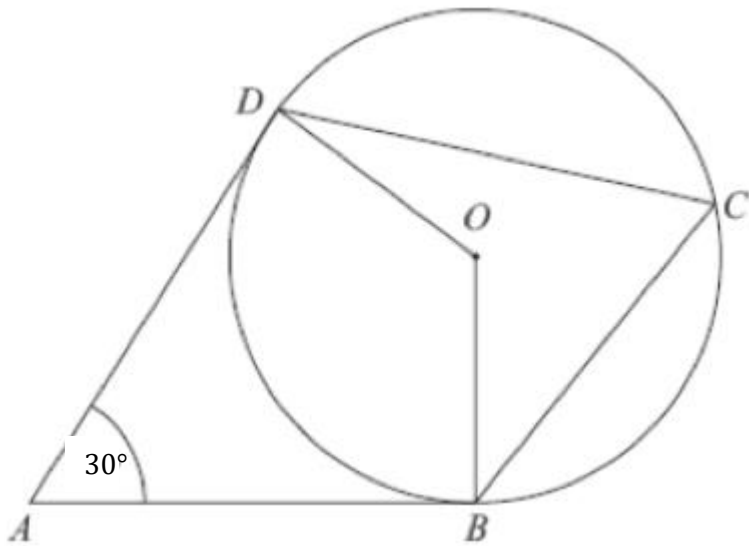


Angle BAD 74°

Angle ABC 123°

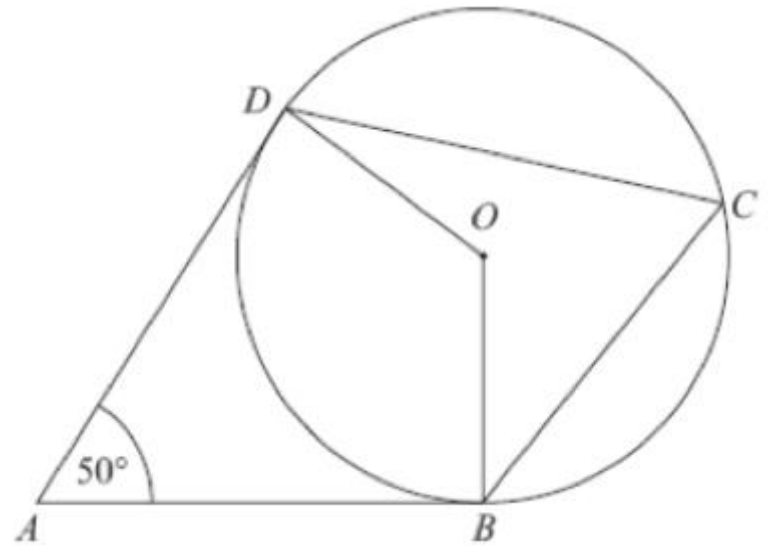
Worked example

Calculate the size of angle BCD



Your turn

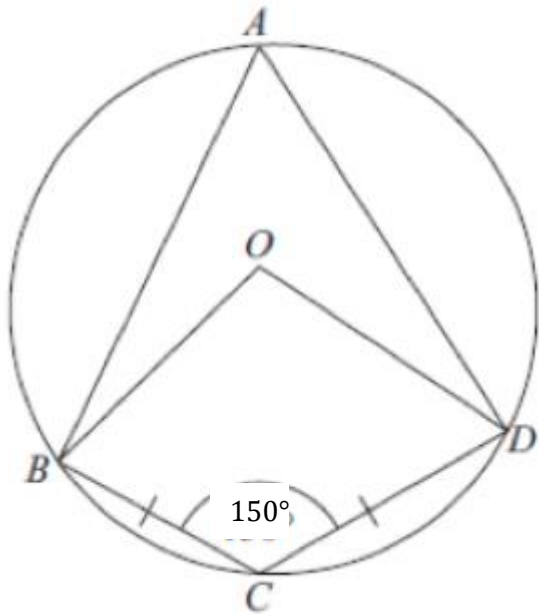
Calculate the size of angle BCD



65°

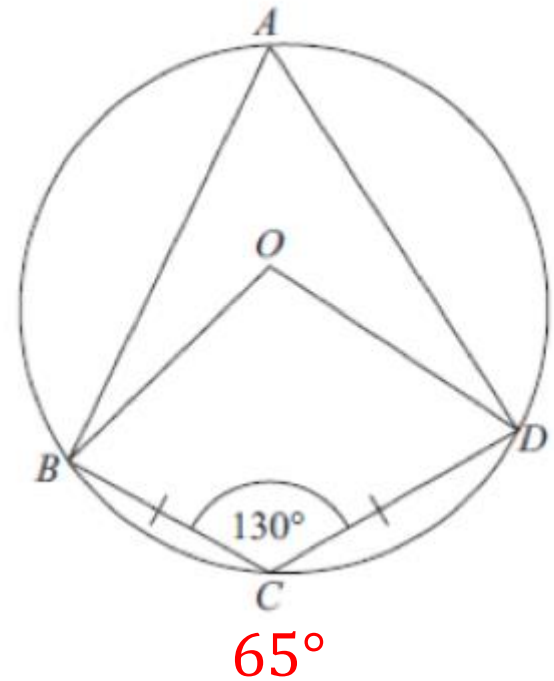
Worked example

Calculate the size of angle CDO



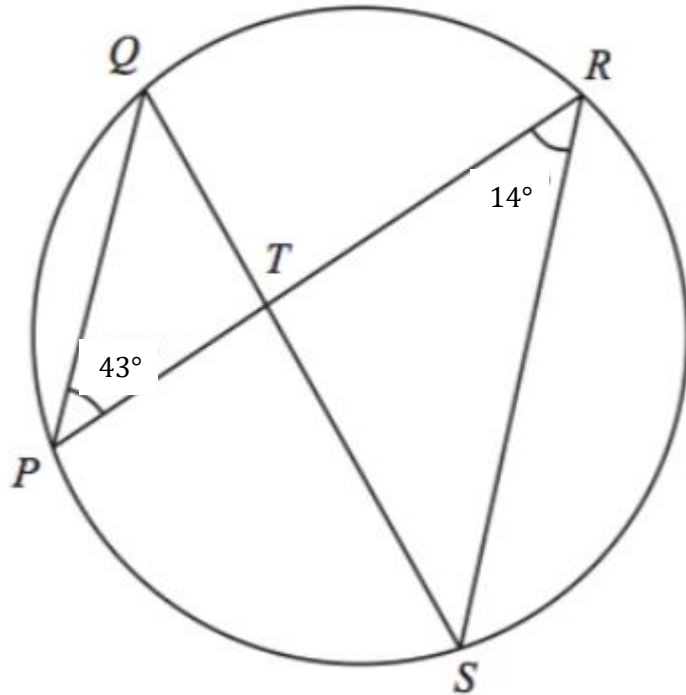
Your turn

Calculate the size of angle CDO



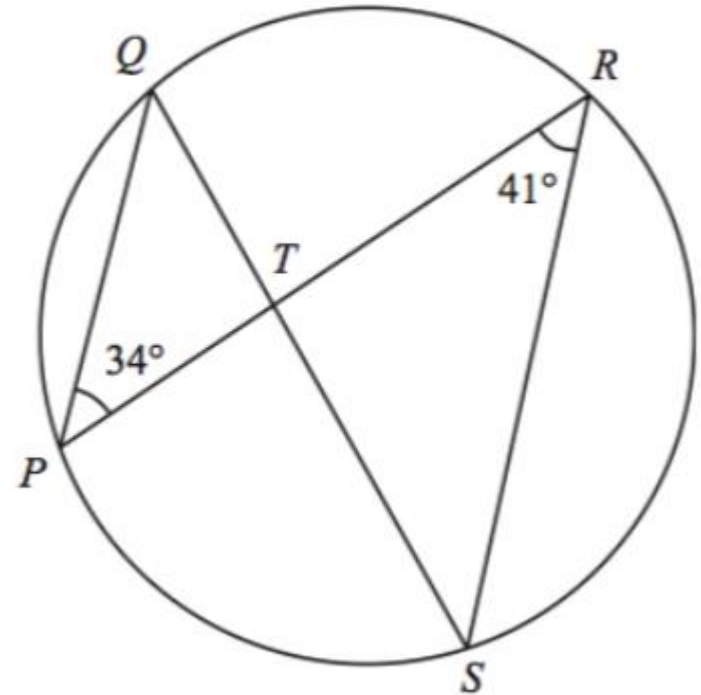
Worked example

Calculate the size of acute angle PTS



Your turn

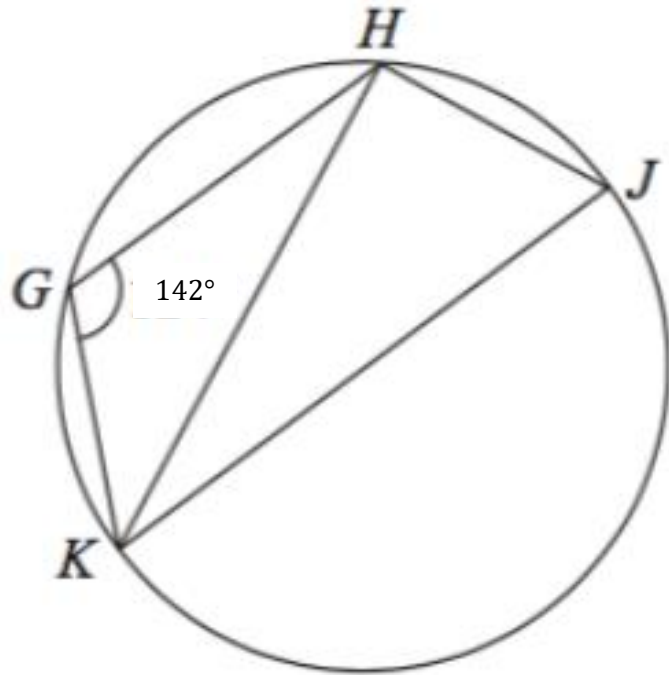
Calculate the size of acute angle PTS



75°

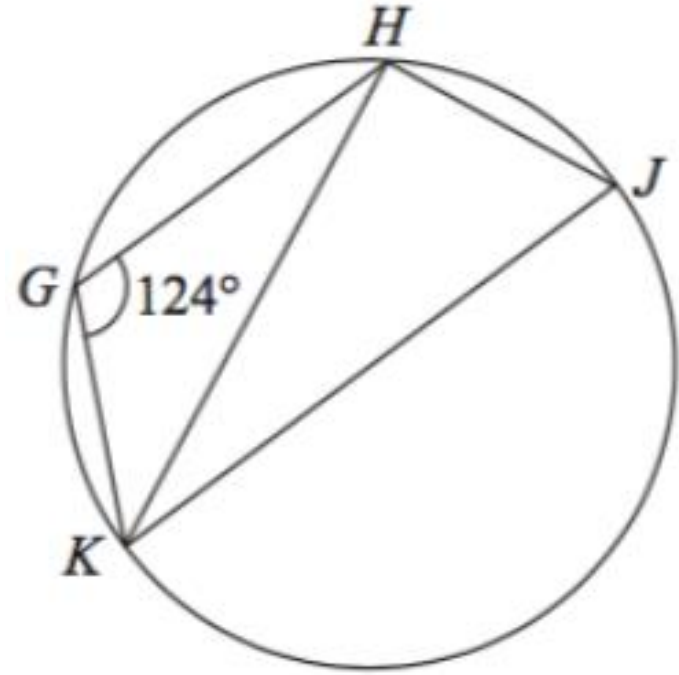
Worked example

Calculate the size of angle HKJ



Your turn

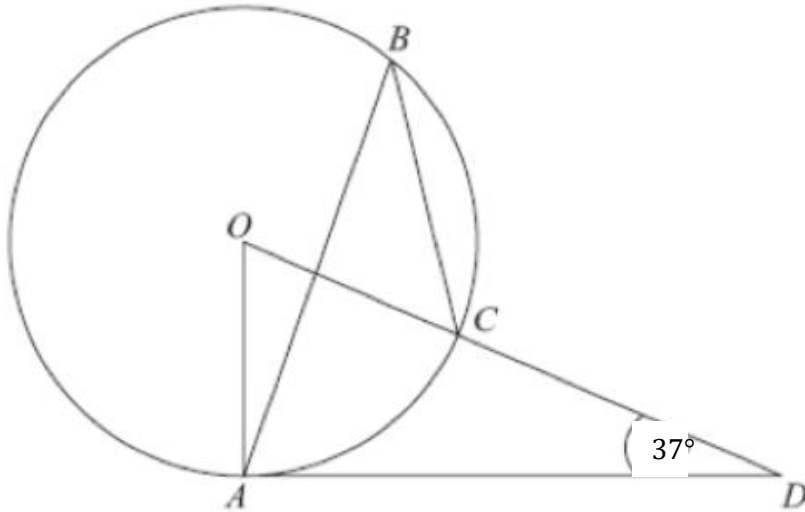
Calculate the size of angle HKJ



34°

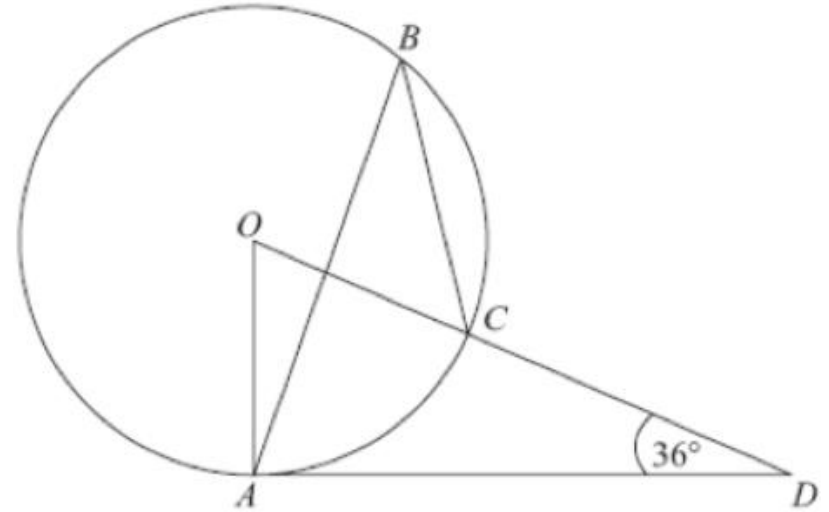
Worked example

Calculate the size of angle ABC



Your turn

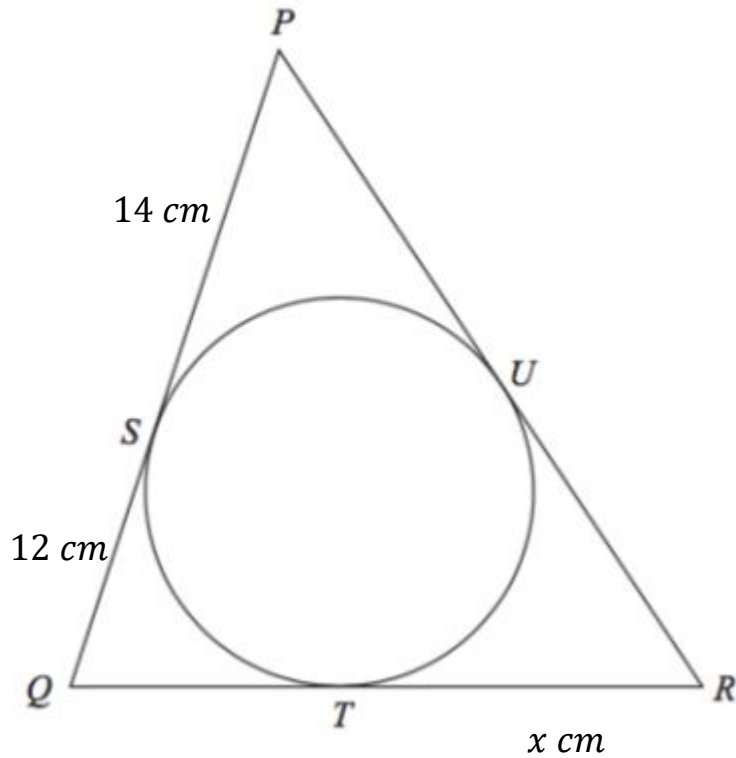
Calculate the size of angle ABC



27°

Worked example

Calculate the length of:



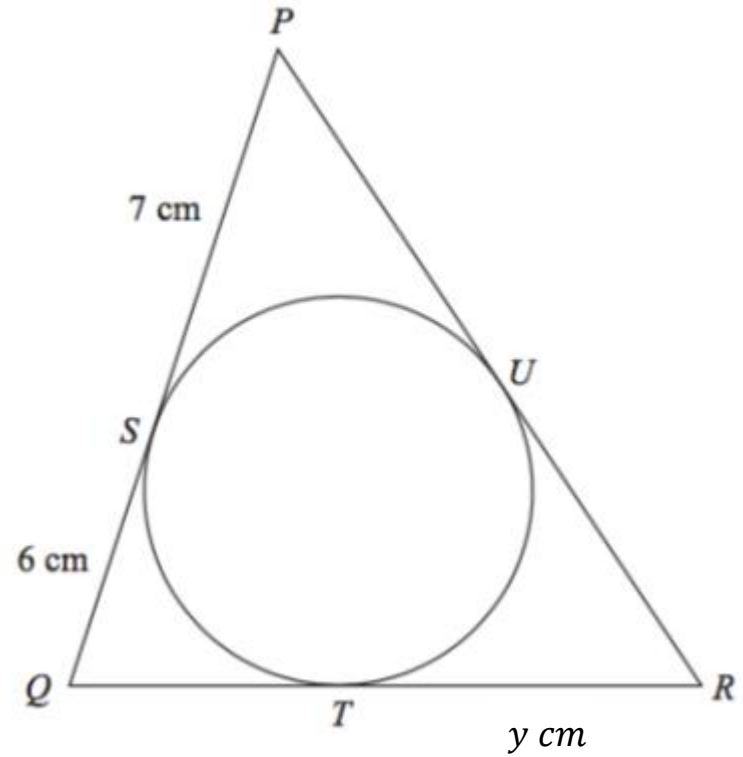
QT

PU

RT

Your turn

Calculate the length of:



QT

6 cm

PU

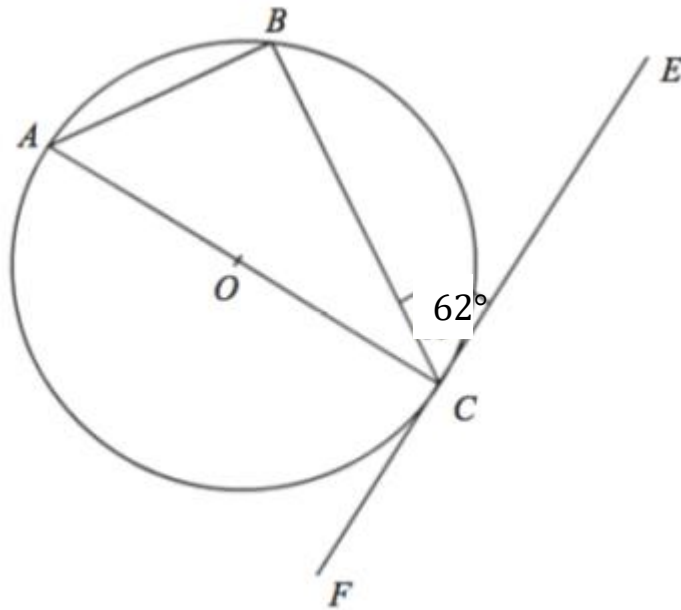
7 cm

RT

$y\text{ cm}$

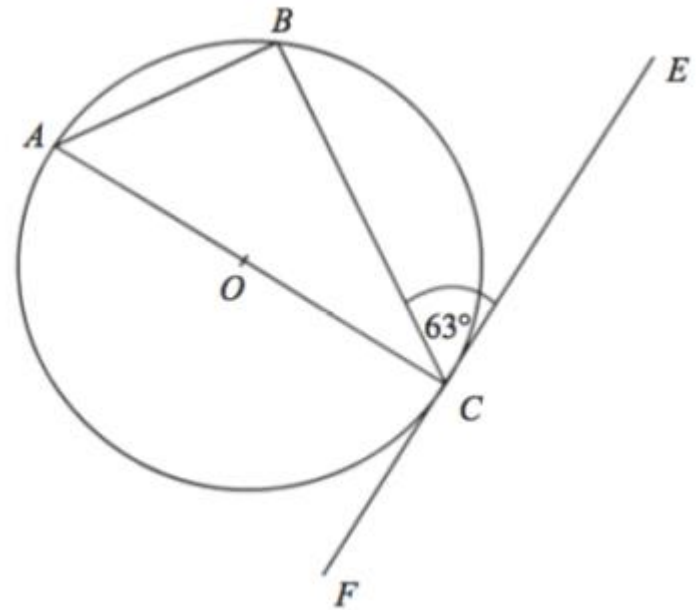
Worked example

Calculate the size of angle BAC



Your turn

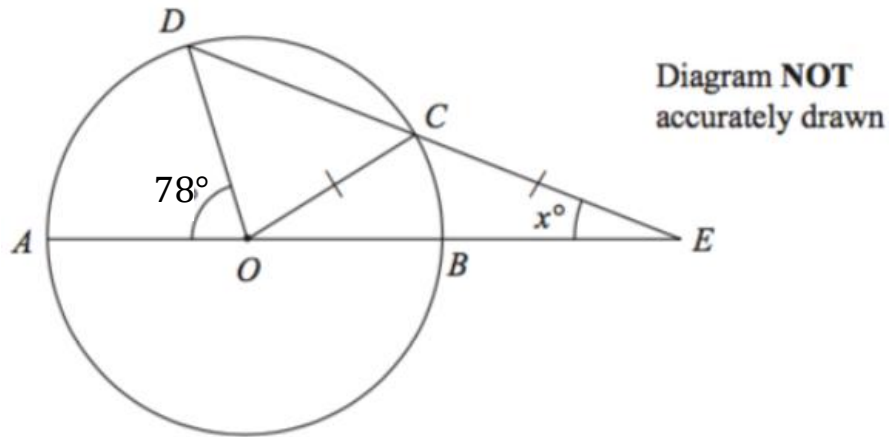
Calculate the size of angle BAC



63°

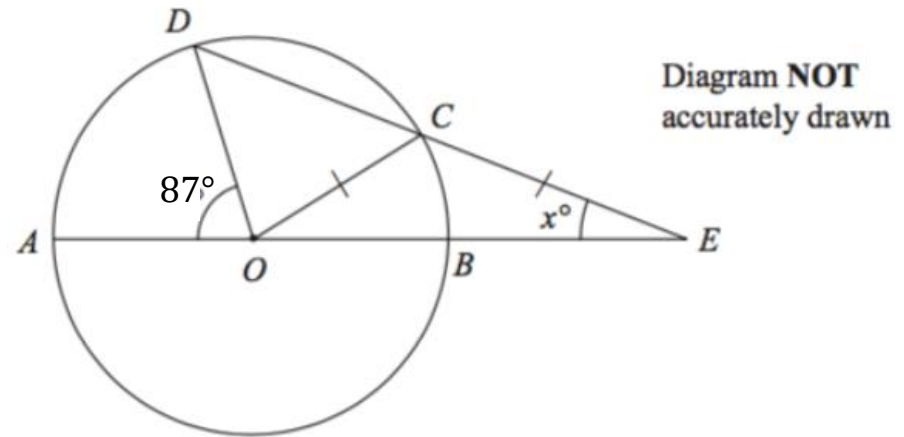
Worked example

Calculate the size of angle x



Your turn

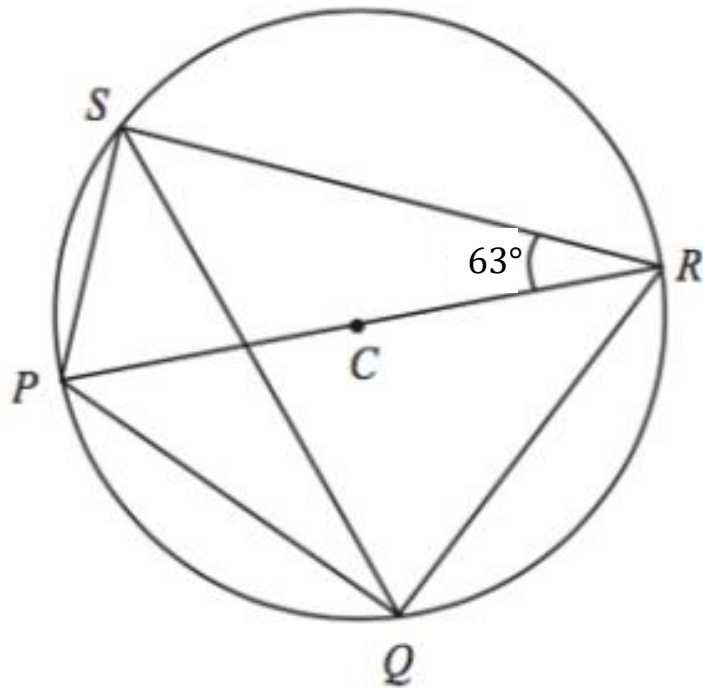
Calculate the size of angle x



29°

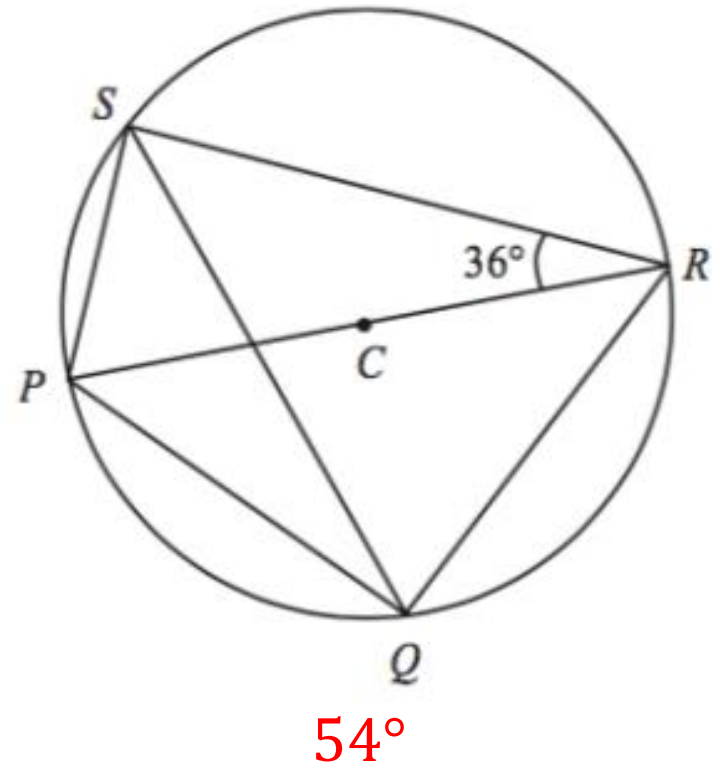
Worked example

Calculate the size of angle RQS



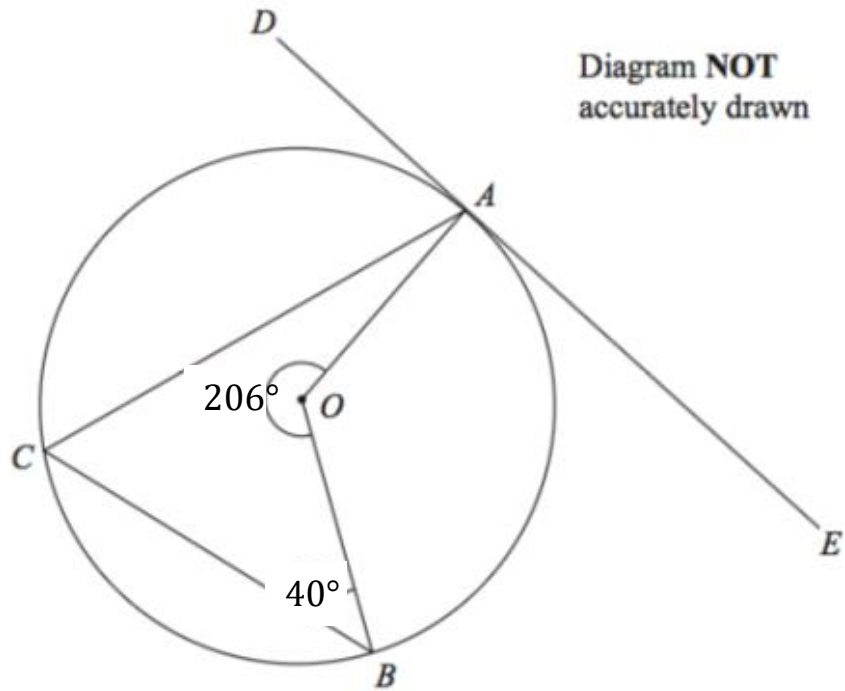
Your turn

Calculate the size of angle RQS



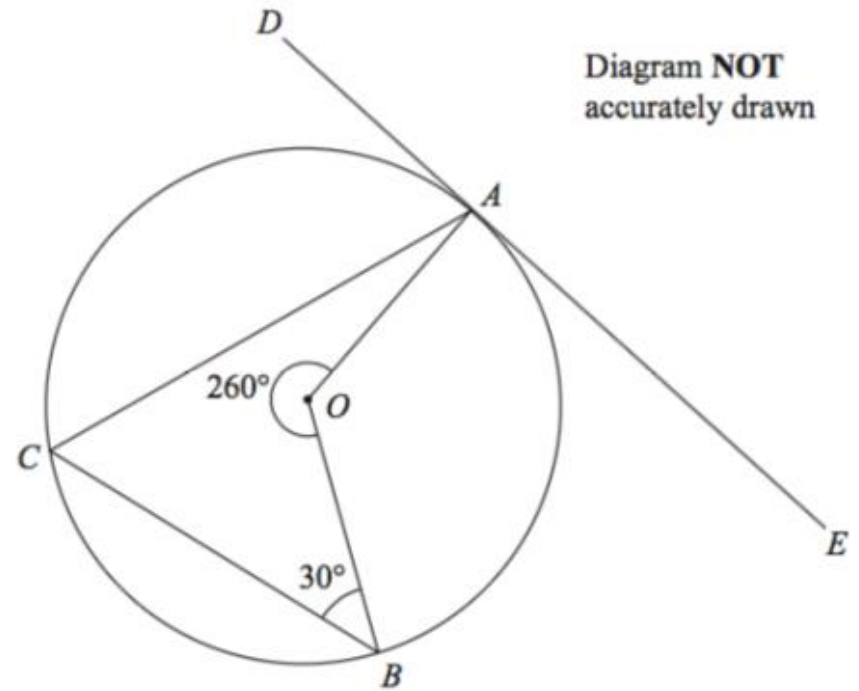
Worked example

Calculate the size of angle CAD



Your turn

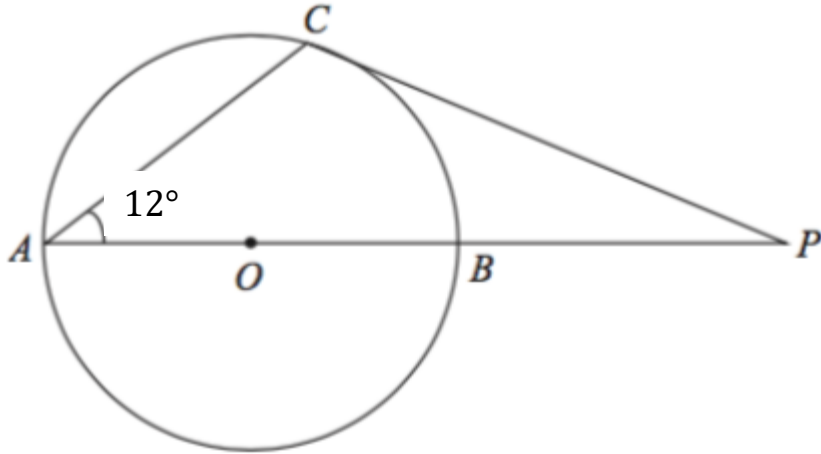
Calculate the size of angle CAD



70°

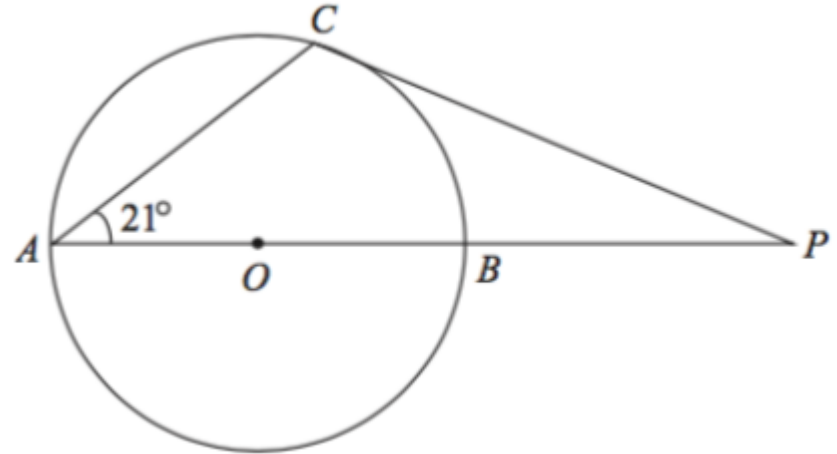
Worked example

Calculate the size of angle APC



Your turn

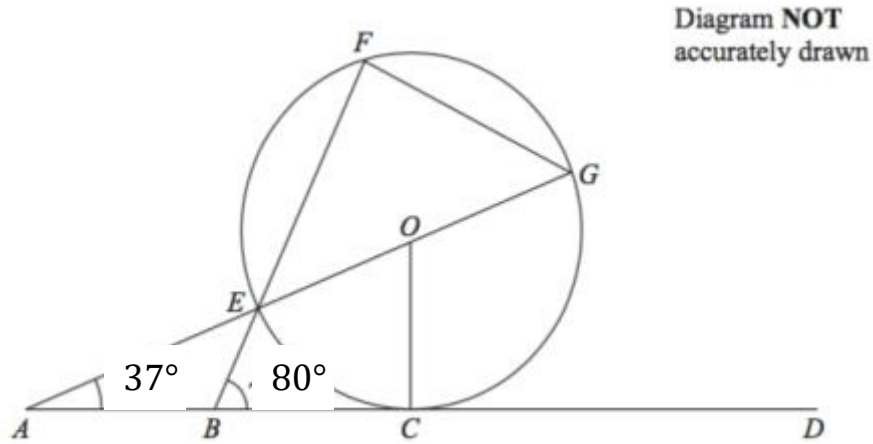
Calculate the size of angle APC



48°

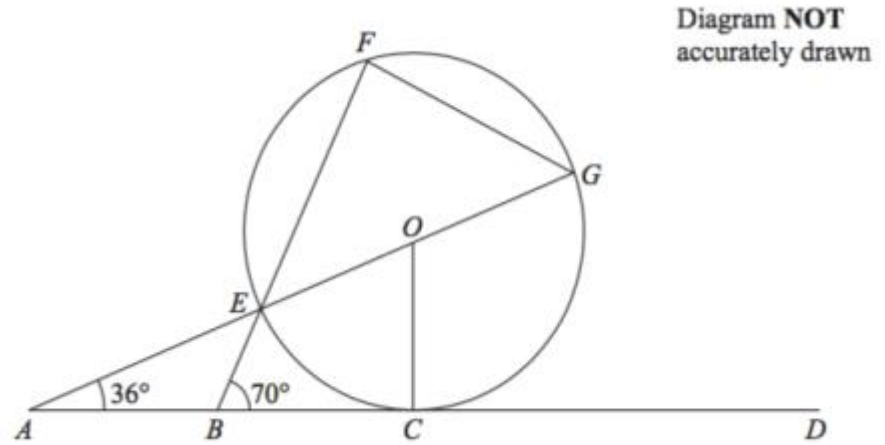
Worked example

Calculate the size of angle CGF



Your turn

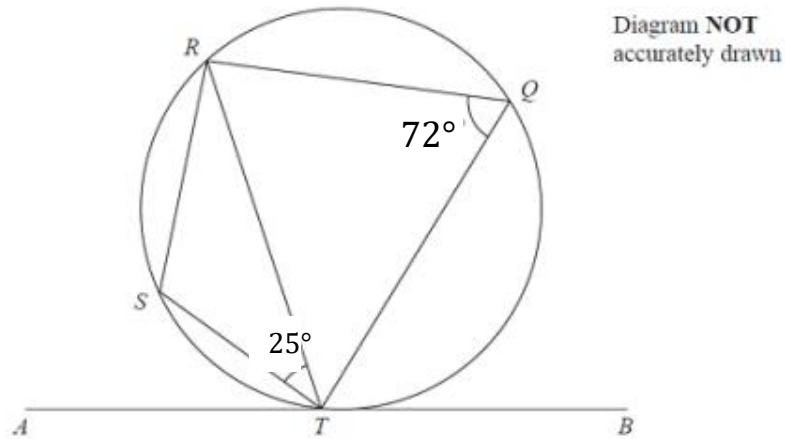
Calculate the size of angle CGF



83°

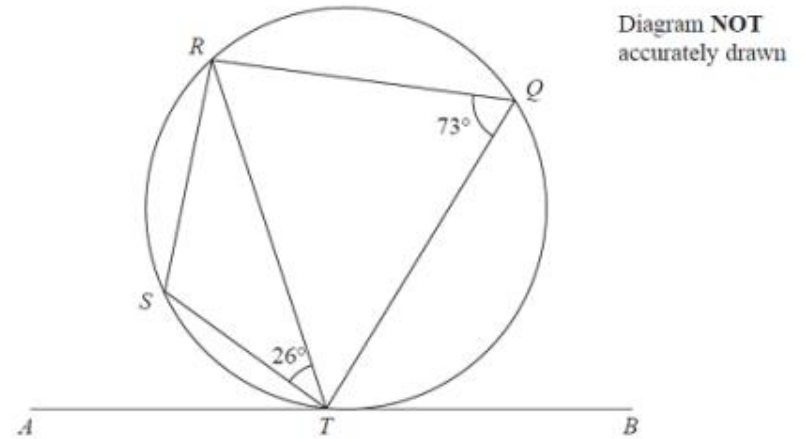
Worked example

Calculate the size of angle STA



Your turn

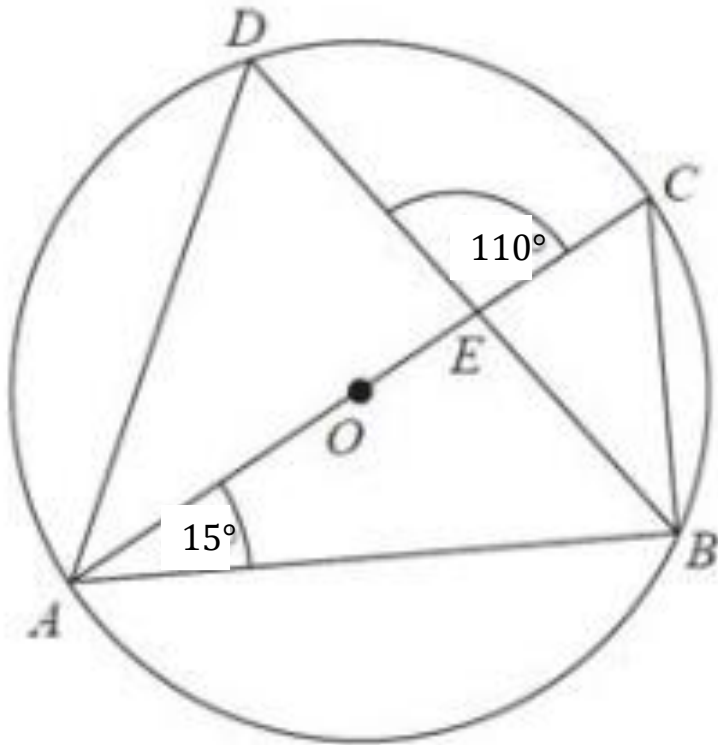
Calculate the size of angle STA



47°

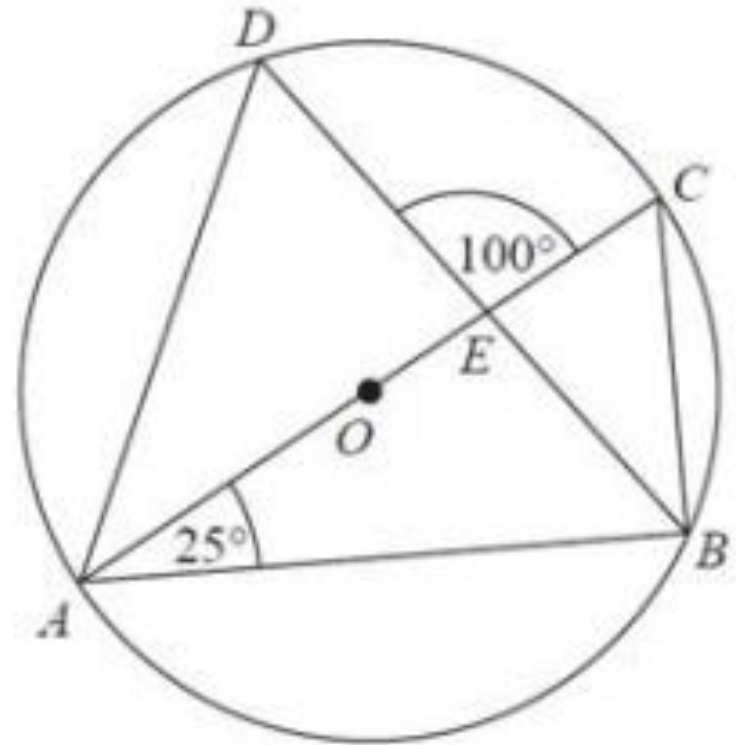
Worked example

Calculate the size of angle DAC



Your turn

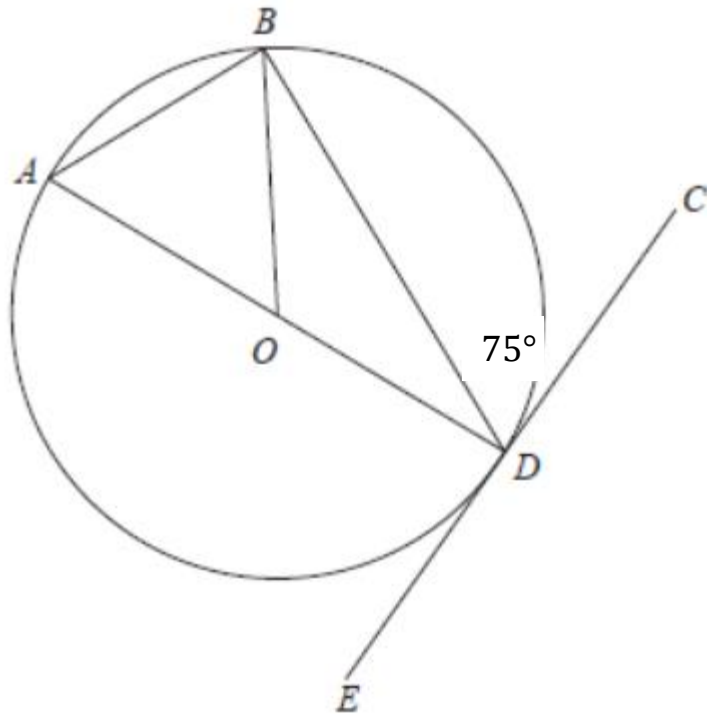
Calculate the size of angle DAC



35°

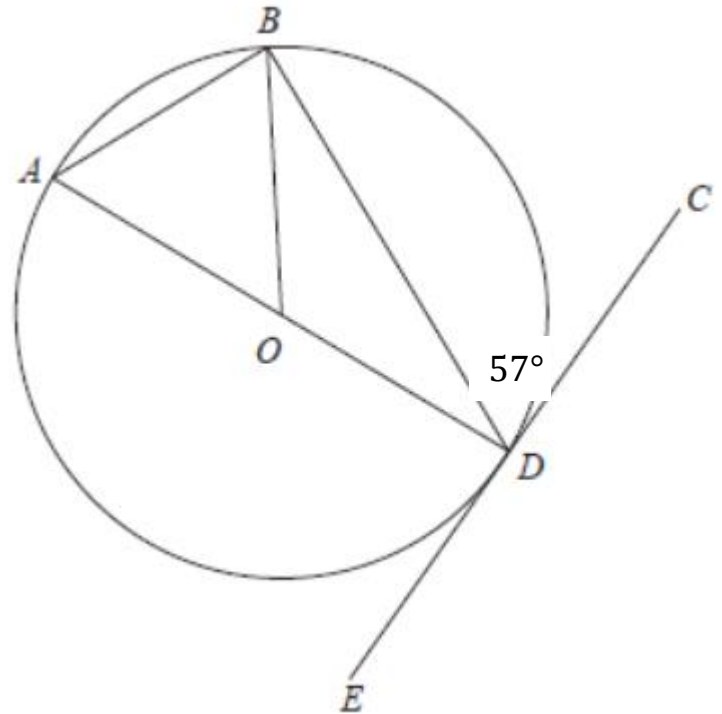
Worked example

Calculate the size of angle AOB



Your turn

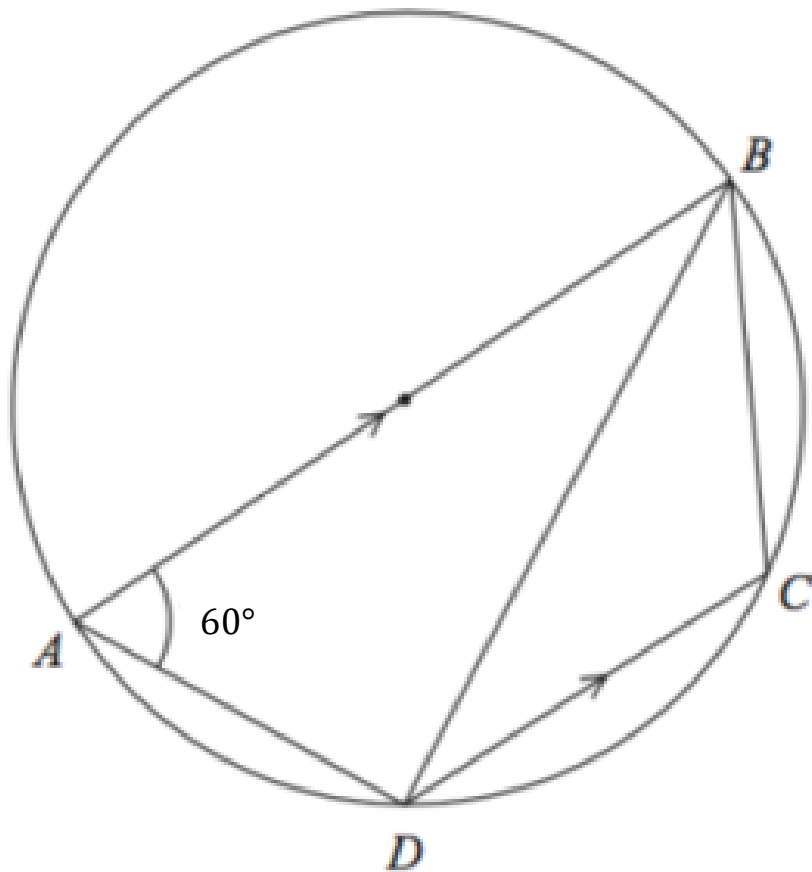
Calculate the size of angle AOB



66°

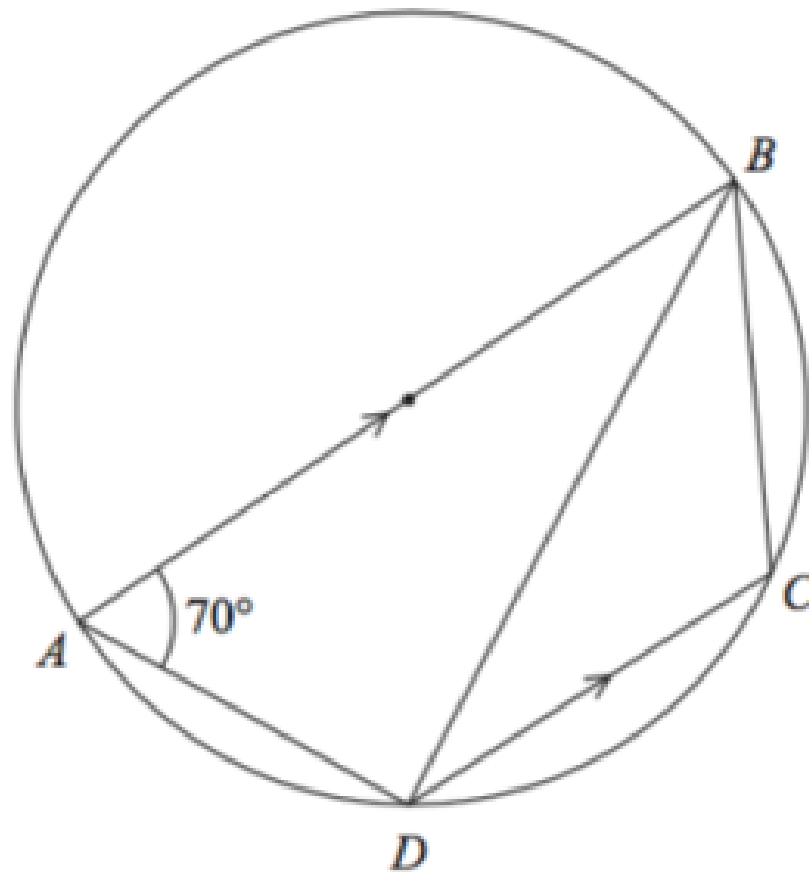
Worked example

The tangent to the circle at D
meets the line BC extended at T
Calculate the size of angle BTD



Your turn

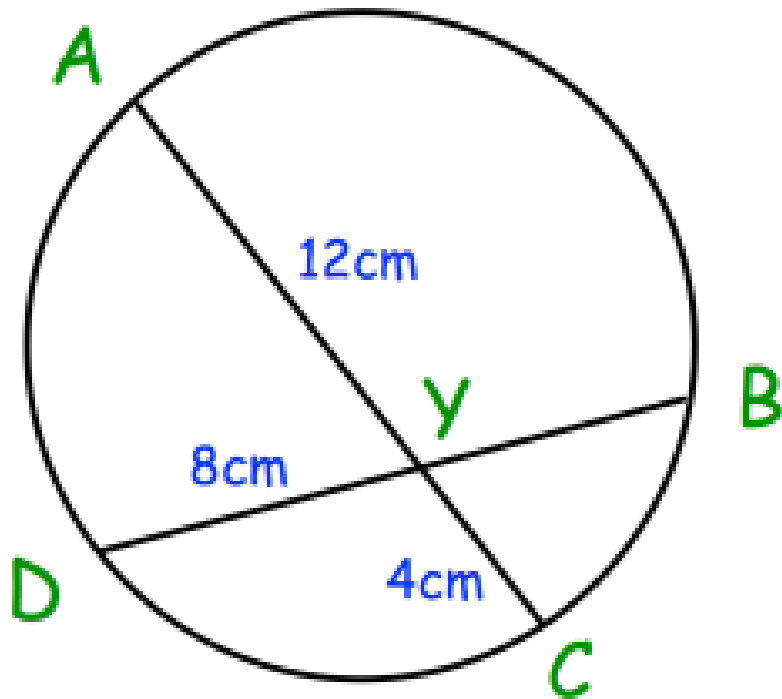
The tangent to the circle at D
meets the line BC extended at T
Calculate the size of angle BTD



60°

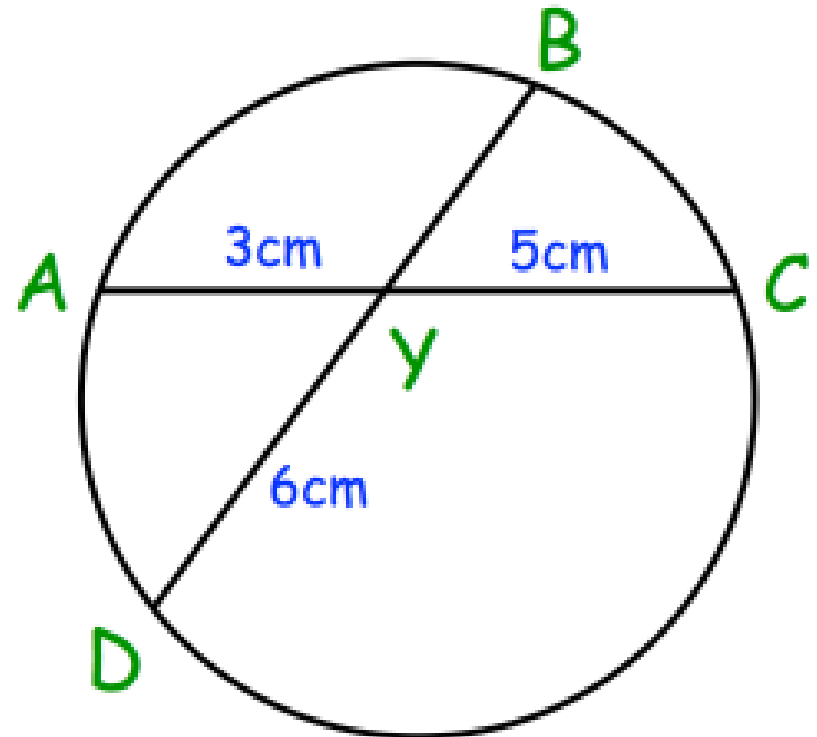
Worked example

Calculate BY



Your turn

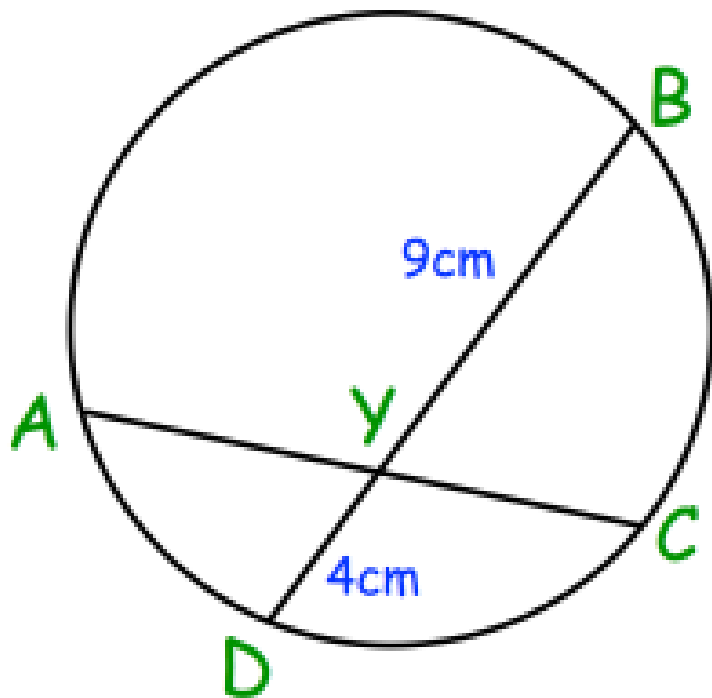
Calculate BY



2.5 cm

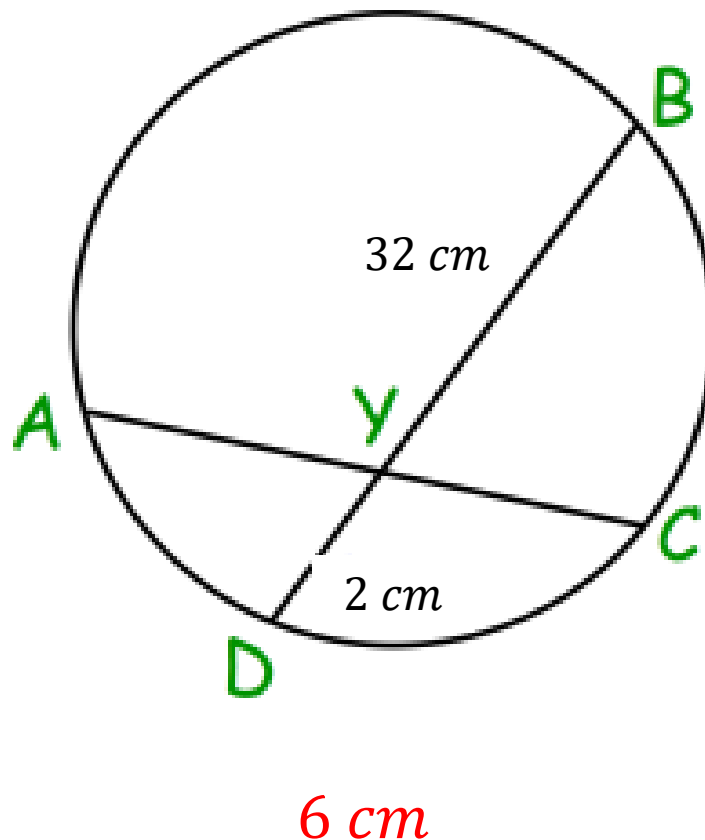
Worked example

Chord BD bisects AC. Find the length of CY



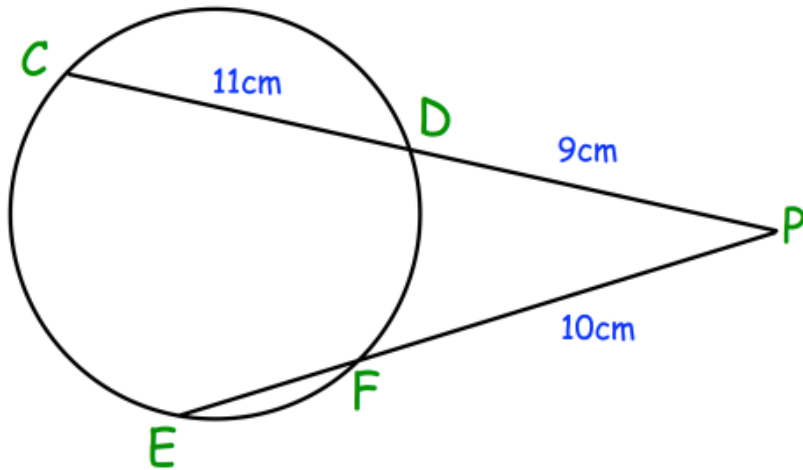
Your turn

Chord BD bisects AC. Find the length of CY



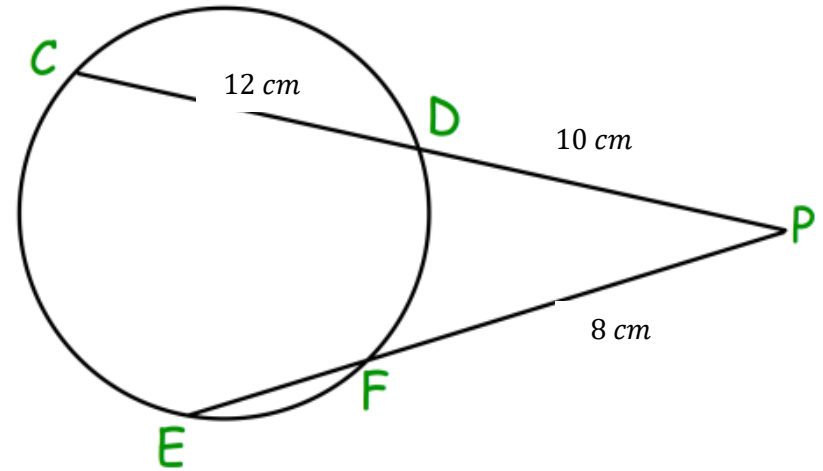
Worked example

Find the length of EF



Your turn

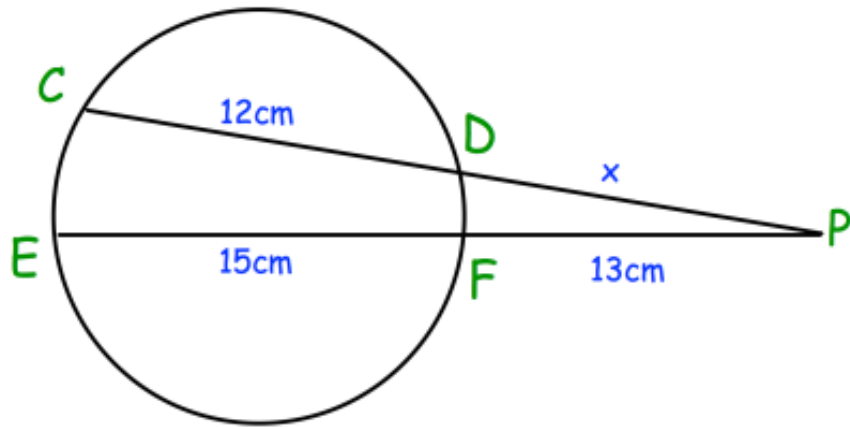
Find the length of EF



7 cm

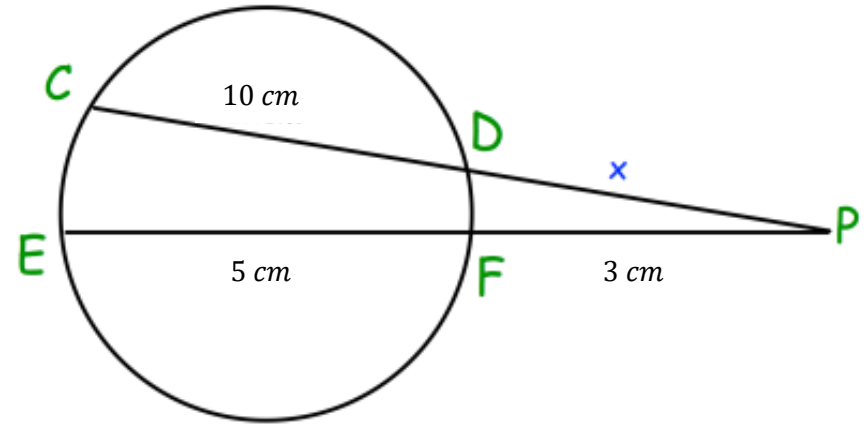
Worked example

Find the value of x



Your turn

Find the value of x



$$x = 2\text{ cm}$$