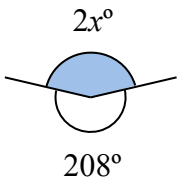
ANGLE

ANGLES AROUND A POINT

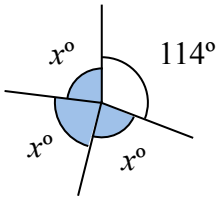
NO PROTRACTOR

Ref: G421.2E1

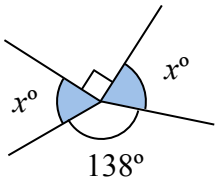
A1 Find the value of x



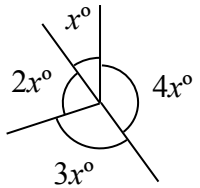
A2 Find the value of x



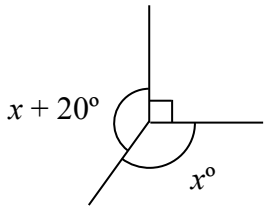
A3 Find the value of x



A4 Find the size of each of the four angles



B1 Find the value of x



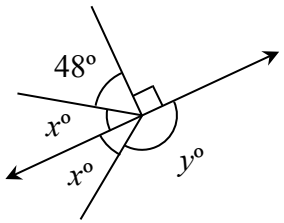
B2 Three angles fit exactly around a point.

The second angle is 20° more than the first angle.

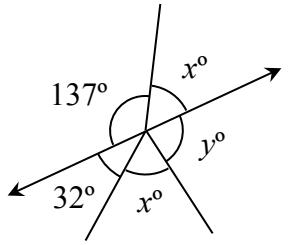
The third angle is twice the size of the second angle.

Find the size of each of the three angles.

B3 Find the values of x and y



B4 Find the values of x and y



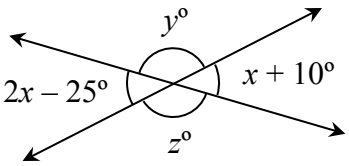
C1 Three angles fit exactly around a point.

Two of the angles are equal.

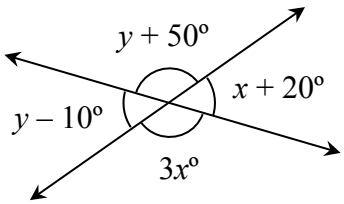
The difference between the largest and smallest angle is 30°

Find the size of each of the three angles.

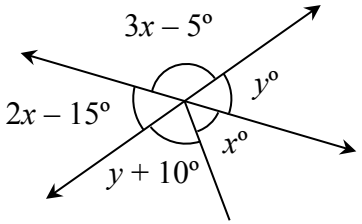
C2 Find the values of x, y and z



C3 Find the values of x and y



C4 Find the values of x, y and z



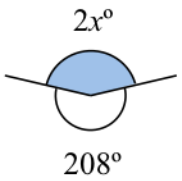
ANGLE

ANGLES AROUND A POINT

NO PROTRACTOR

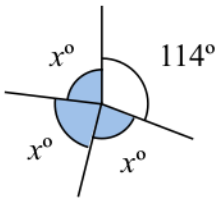
Ref: G421. 2E1

A1 Find the value of x



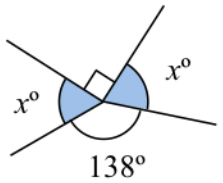
$2x = 152$ $x = 76$

A2 Find the value of x



$3x = 246$ $x = 82$

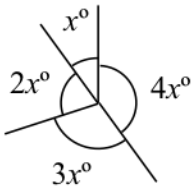
A3 Find the value of x



$2x = 132$ $x = 66$

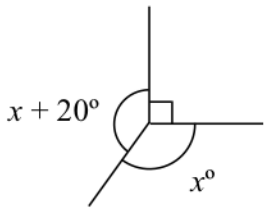
A4 Find the size of each of the four angles

$10x = 360 \Rightarrow x = 36°$



36°, 72°, 108° and 144°

B1 Find the value of x



$2x + 20 = 270$ $x = 125$

B2 Three angles fit exactly around a point.

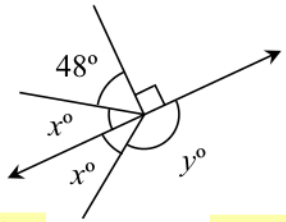
$x + (x + 20) + (2x + 40) = 360$

$4x + 60 = 360$

$x = 75$

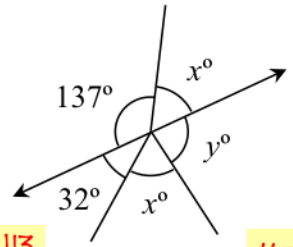
75°, 95° and 190°

B3 Find the values of x and y



$x = 42$ $y = 138$

B4 Find the values of x and y



$x = 43$ $y = 105$

C1 Three angles fit exactly around a point.

If smallest angles are equal:

$x + x + (x + 30) = 360$

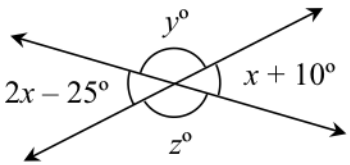
$3x + 30 = 360$

$x = 110$

$\Rightarrow x + 30 = 140°$

C2 Find the values of x, y and z

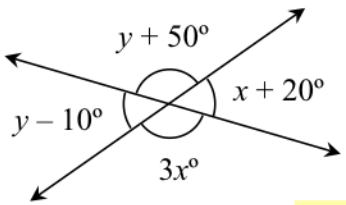
$2x - 25 = x + 10$



$x = 35$ $y = z = 135$

C3 Find the values of x and y

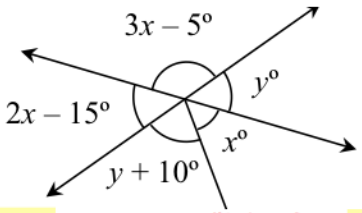
$(y - 10) + (y + 50) = 180$



$y = 70$ $x = 40$

C4 Find the values of x, y and z

$(2x - 15) + (3x - 5) = 180$



$x = 40$ $y = 2(40) - 15 = 65$