

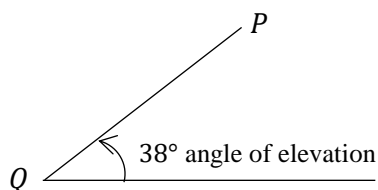
Question 1

Two angles x and y are complementary. If $x = 35^\circ$, what is the value of y ?

[401/1:2014]

Question 2

If the angle of elevation of P from Q is 38° , then the angle of depression of Q from P is ...

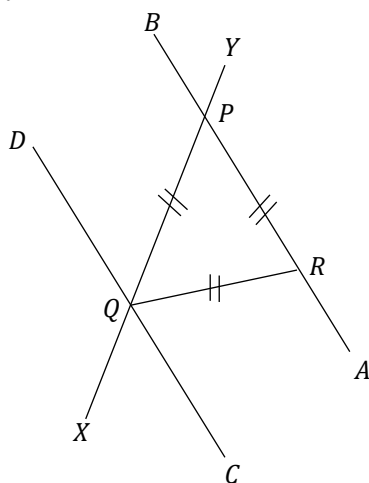


[401/1: 1991]

Question 3

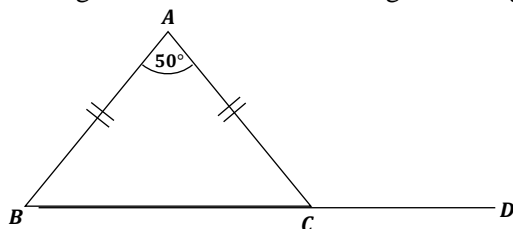
In the diagram below lines AB and CD are parallel. The line XY crosses AB and CD at P and Q respectively. R is on AB such that $QR = RP = QP$, find angle DQY .

[401/1:2015]

**Question 4**

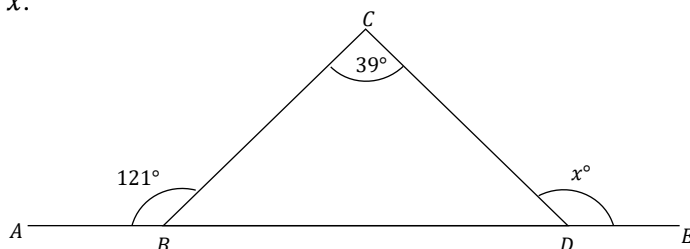
In the diagram below BCD is a straight line angle, $BAC = 50^\circ$ and $AB = AC$. Find angle ACD .

[401/1:2015]

**Question 5**

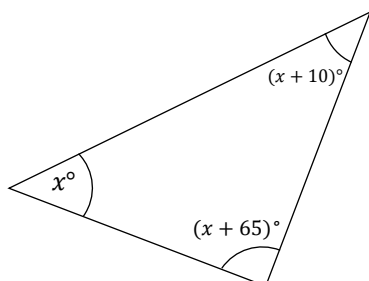
In the diagram below angle $ABC = 121^\circ$ angle $BCE = 39^\circ$ and $ABDE$ is straight line. Find the value of x .

[401/1:2014]

**Question 6**

The angles of triangle ABC are shown in the diagram below. Calculate the value of x .

[401/2:2016]

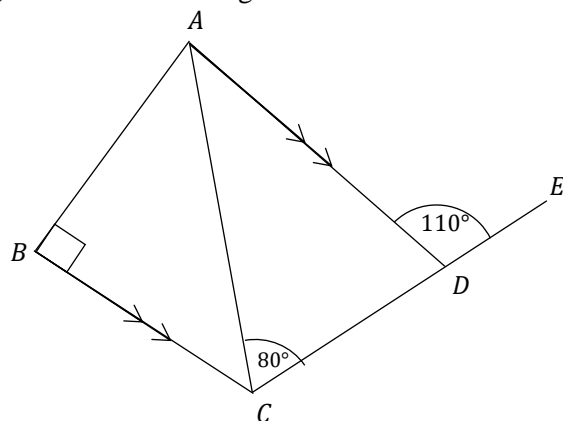


Question 7

In the diagram below AD is parallel to BC . Angle $ABC = 90^\circ$, angle $ADE = 110^\circ$ and angle $ACD = 80^\circ$.

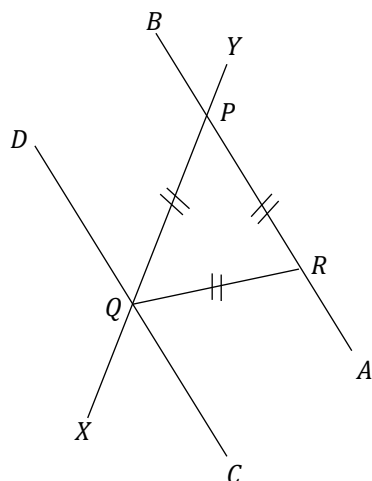
[401/2:2015]

- (a) Find the size of angle ACB
 (b) Find the size of angle BAC

**Question 8**

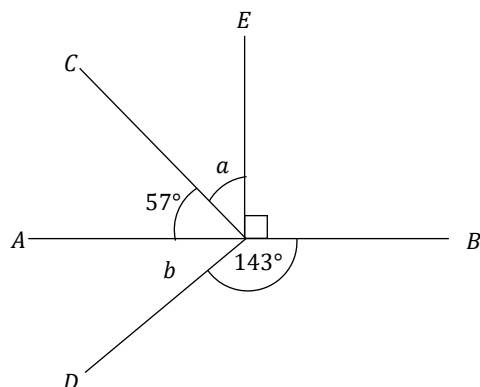
In the diagram below lines AB and CD are parallel. The line XY crosses AB and CD at P and Q respectively. R is on AB such that $QR = RP = QP$, find angle DQY .

[401/1:2015]

**Question 9**

In the diagram below AOB is a straight line, $\angle BOD = 143^\circ$, $\angle AOC = 57^\circ$ and $\angle BOE$ is a right angle. Find the sum of angles a and b .

[401/1:2016]

**Question 10**

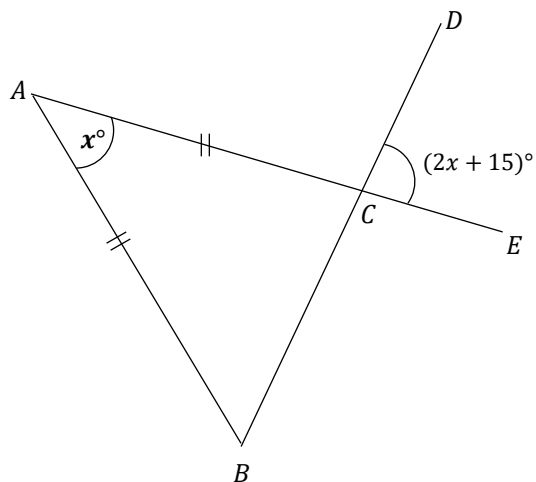
If x° and $(3x - 2)^\circ$ are complementary angles, find the value of x .

[401/1:2017]

Question 11

In the diagram below ACE and BCD are straight lines, $AB = AC$, angle $BAC = x^\circ$ and angle $DCE = (2x + 15)^\circ$. Find the value of x .

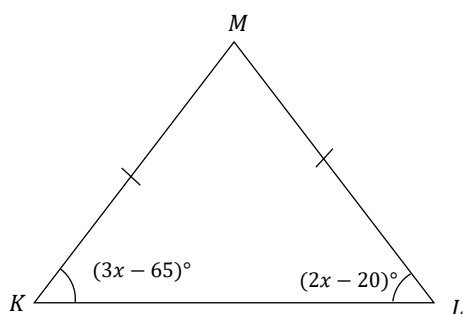
[401/2:2017]



Question 12

In the diagram below $KM = ML$, angle $MKL = (3x - 65)^\circ$ and angle $MLK = (2x - 20)^\circ$. Calculate x .

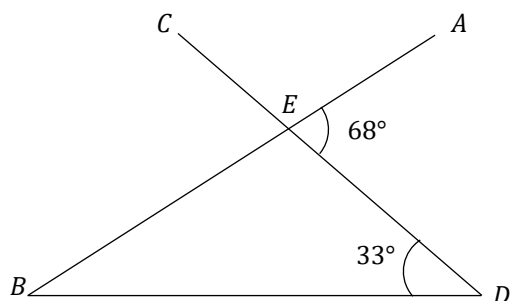
[401/2: 2019]



Question 13

In the diagram below AB and CD are straight lines meeting at E angle $AED = 68^\circ$ angle $DE = 33^\circ$. Find the size of angle ABD .

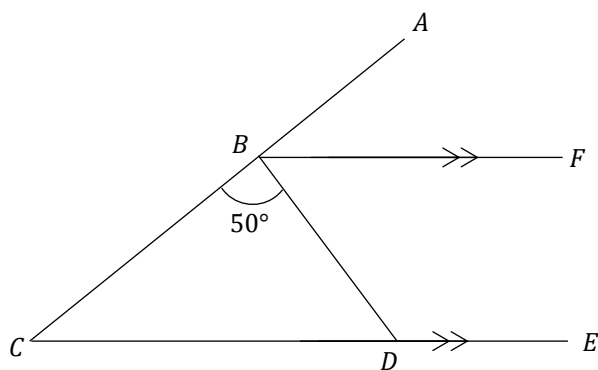
[401/1: 2018]



Question 14

In the figure below BF is parallel to CE , BF bisects angle ABD and angle $CBD = 50^\circ$. Calculate the size of angle BDE .

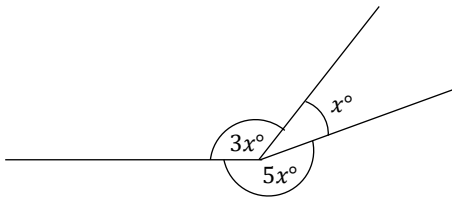
[401/1: 2019]



Question 15

Find the value of x in the figure below.

[401/1: 2020]



Question 16

In the diagram below triangle ABC is an isosceles and triangle BCD is an equilateral. Angle $BAC = 40^\circ$. Find angle ABD .

