



Name: _____

Date: _____

Problem Sum Worksheet

Topic : Angles

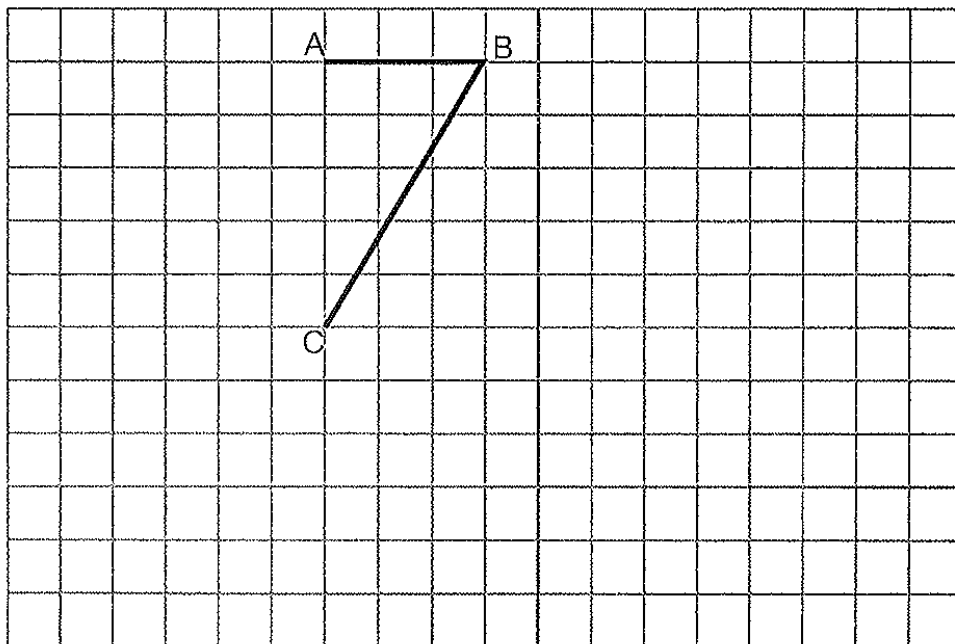
Video Solution: <https://www.omyclassroom.com/angles-56.html>



Topic 1 : Geometrical Construction - Qn 1 (Difficulty: Low)

In the square grid, two sides of a parallelogram ABCD have been drawn.

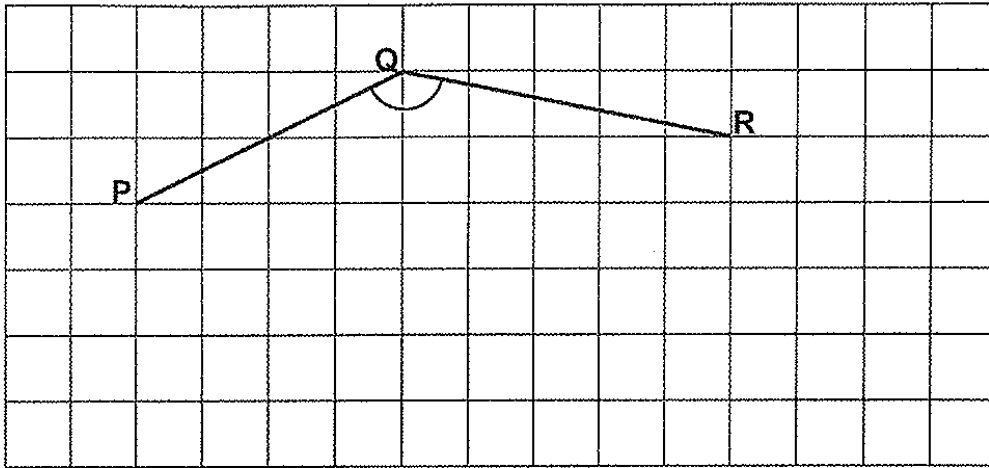
- (a) Complete the drawing of the parallelogram ABCD.
- (b) CB also forms one side of a triangle CBE in which $\angle CBE$ is a right angle and $CB = BE$. Complete the drawing of the triangle CBE within the grid.



Topic 1 : Geometrical Construction - Qn 2 (Difficulty: Low)

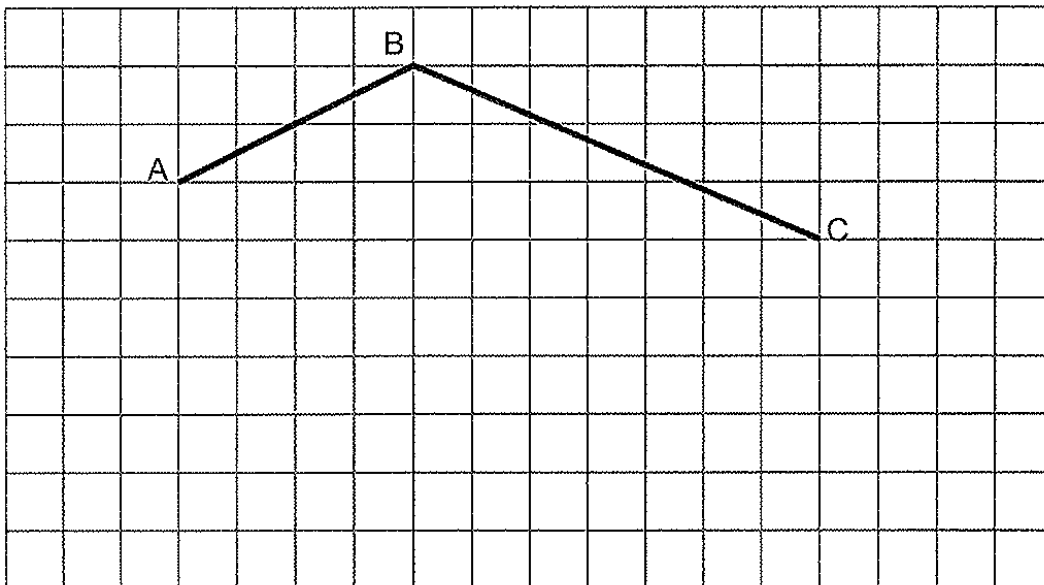
In the square grid below, PQ and QR are straight lines.

- (a) Measure and write down the size of $\angle PQR$.
- (b) PQ and QR form two sides of a trapezium PQRS. PS is parallel to QR. PS is twice the length of QR. Complete the drawing of trapezium PQRS.



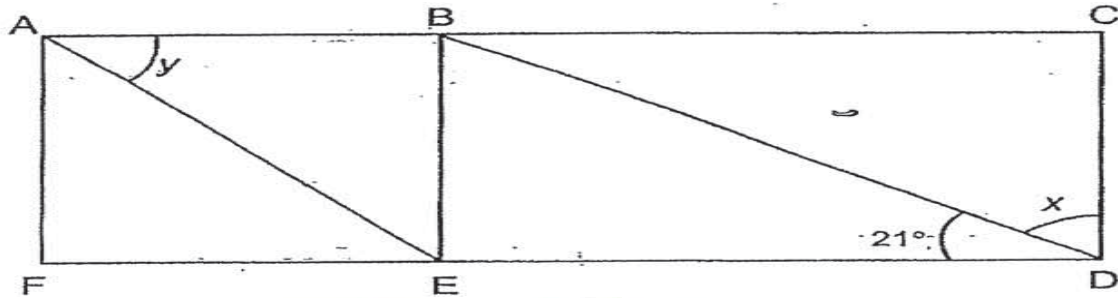
Topic 1 : Geometrical Construction - Qn 3 (Difficulty: Low)

AB and BC are two sides of a parallelogram. Complete the parallelogram by drawing the other two sides in the square grid below.



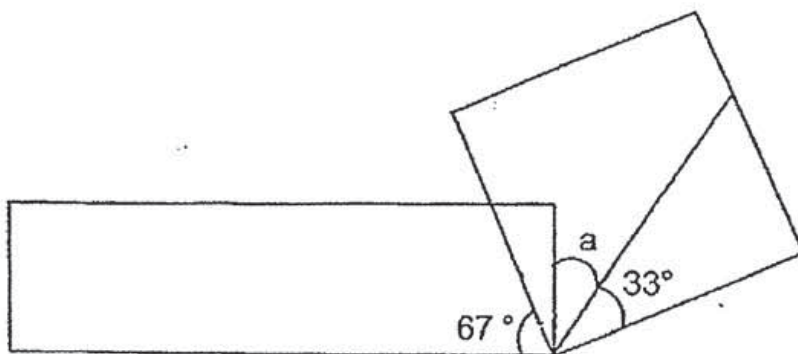
Topic 2 : Simple Angles - Qn 1 (Difficulty: Low)

The figure below shows square ABEF and rectangle BCDE. Find the sum of $\angle x$ and $\angle y$.



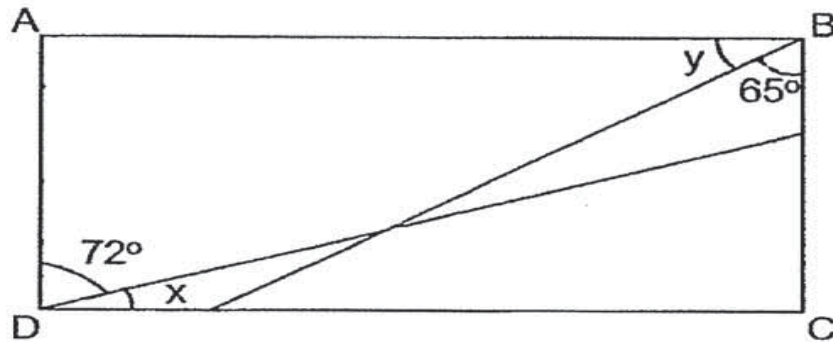
Topic 2 : Simple Angles - Qn 2 (Difficulty: Low)

The figure below is made up of a rectangle and a square. Find the value of $\angle a$.



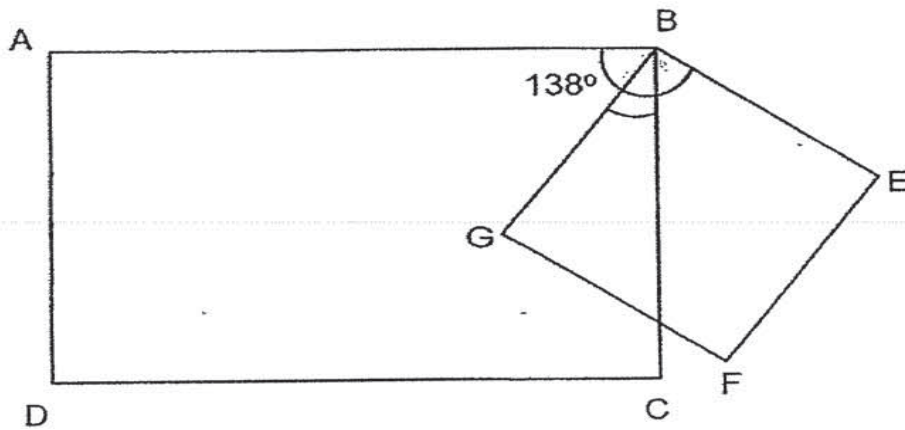
Topic 2 : Simple Angles - Qn 3 (Difficulty: Low)

In the figure, ABCD is a rectangle. Find the sum of $\angle x$ and $\angle y$.



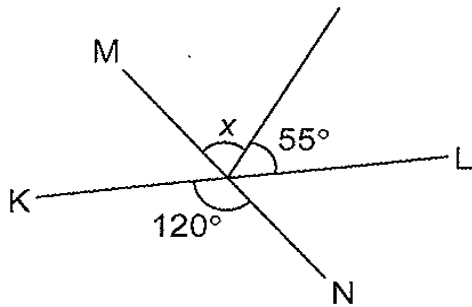
Topic 2 : Simple Angles - Qn 4 (Difficulty: Low)

ABCD is a rectangle and BEFG is a square. $\angle ABE$ is 138° . Find $\angle CBG$.



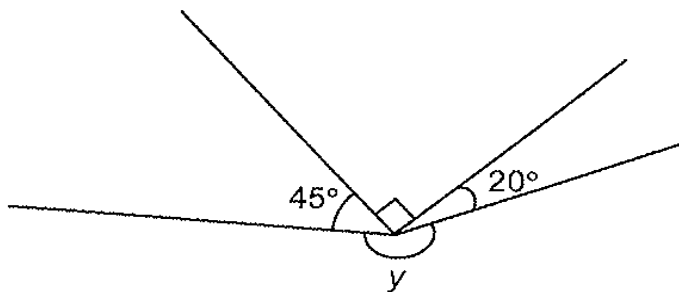
Topic 2 : Simple Angles - Qn 5 (Difficulty: Low)

In the figure, KL and MN are straight lines. Find $\angle x$.



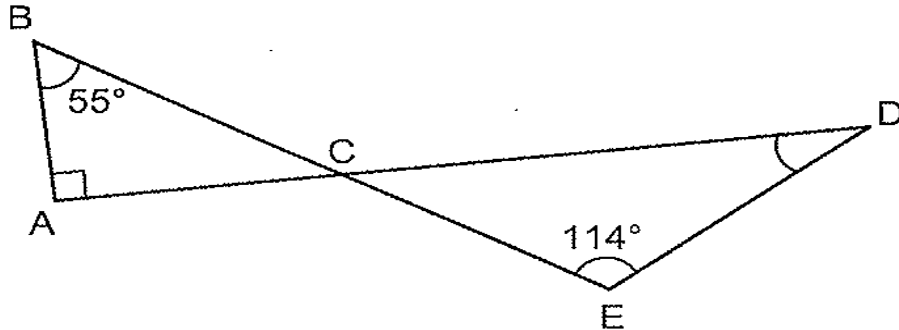
Topic 2 : Simple Angles - Qn 6 (Difficulty: Low)

Find $\angle y$ in the figure below.



Topic 2 : Simple Angles - Qn 7 (Difficulty: Low)

In the figure below, ACD and BCE are straight lines.
 $\angle ABE = 55^\circ$, $\angle DEB = 114^\circ$ and $\angle DAB = 90^\circ$. Find $\angle ADE$.



Topic 3 : Complex Angles – Qn 1 (Difficulty: Medium)

In the figure, ABCD is a rectangle. $BD = BE$, $\angle BED = 40^\circ$ and $\angle EDA = 260^\circ$. Find $\angle CDB$.

