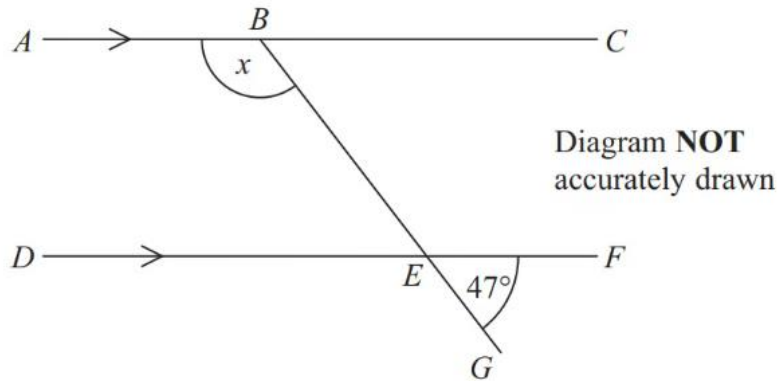


01)



ABC and DEF are parallel lines.

BEG is a straight line.

Angle $GEF = 47^\circ$.

Work out the size of the angle marked x .

Give reasons for your answer.

(2)

02)

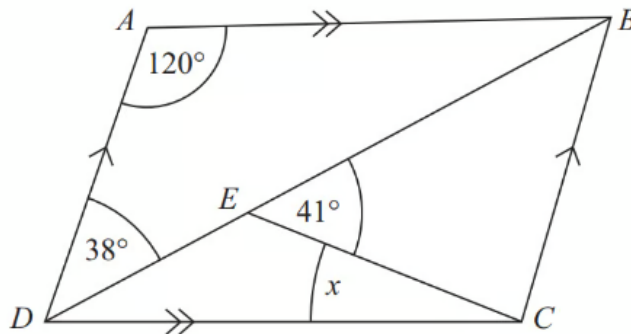


Diagram NOT accurately drawn

$ABCD$ is a parallelogram.

Angle $ADB = 38^\circ$.

Angle $BEC = 41^\circ$.

Angle $DAB = 120^\circ$.

Calculate the size of angle x .

You must give reasons for your answer.

(2)

03)

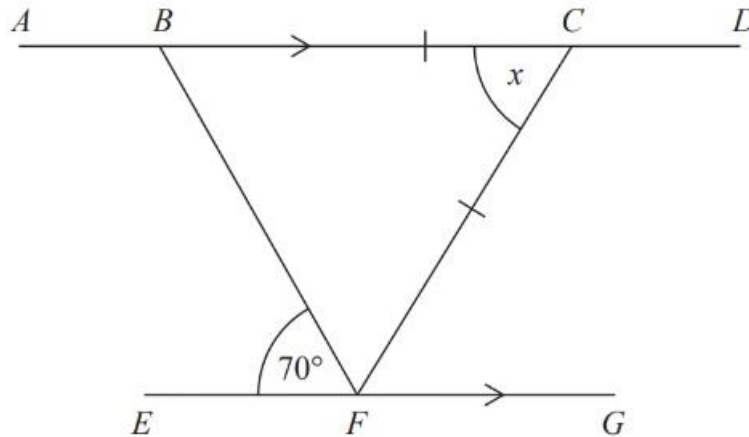


Diagram **NOT** accurately drawn

$ABCD$ and EFG are parallel lines.

$BC = CF$

Angle $BFE = 70^\circ$

(2)

Work out the size of the angle marked x .

Give reasons for each stage of your working.

04)

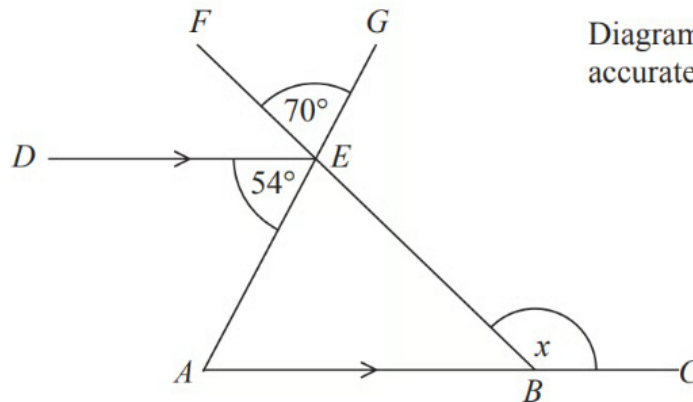


Diagram **NOT** accurately drawn

ABC and DE are parallel lines.

AEG and BEF are straight lines.

Angle $AED = 54^\circ$

Angle $FEG = 70^\circ$

Work out the size of the angle marked x .

Give a reason for each stage of your working.

(2)

05)

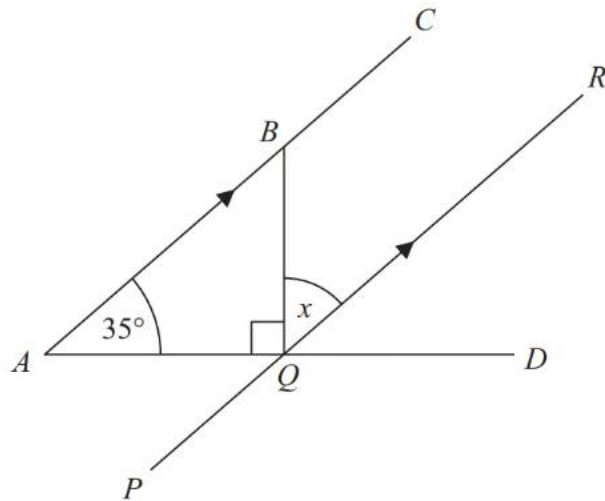


Diagram **NOT**
accurately drawn

*ABC, PQR and AQD are straight lines.
ABC is parallel to PQR.*

Angle $BAQ = 35^\circ$
Angle $BQA = 90^\circ$

(2)

Work out the size of the angle marked x .
Give reasons for each stage of your working.

06)

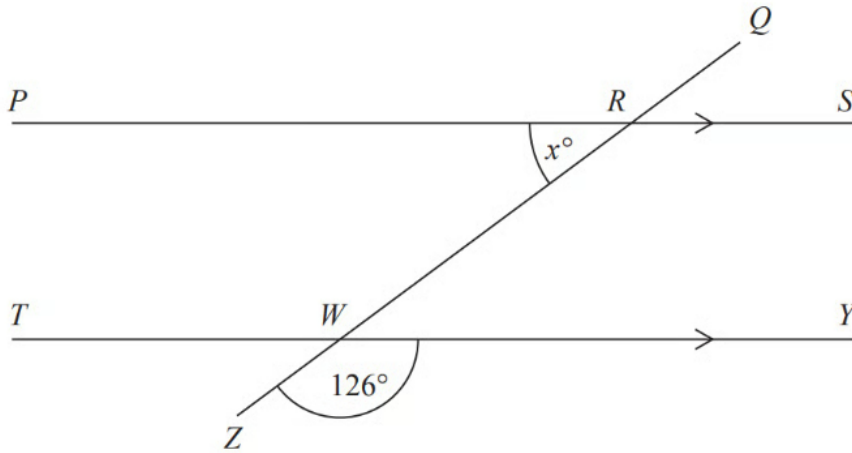


Diagram **NOT**
accurately drawn

PRS and TWY are parallel straight lines.
 $QRWZ$ is a straight line.

(2)

Work out the value of x .
Give reasons for your answer.

07)

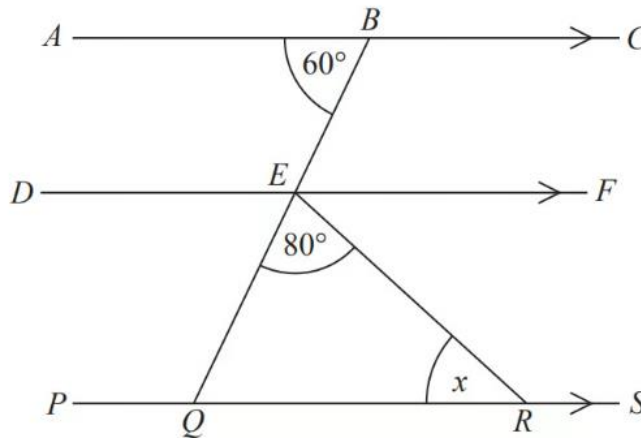


Diagram **NOT**
accurately drawn

ABC , DEF and $PQRS$ are parallel lines.
 BEQ is a straight line.

(2)

Angle $ABE = 60^\circ$
Angle $QER = 80^\circ$

Work out the size of the angle marked x .
Give reasons for each stage of your working.

08)

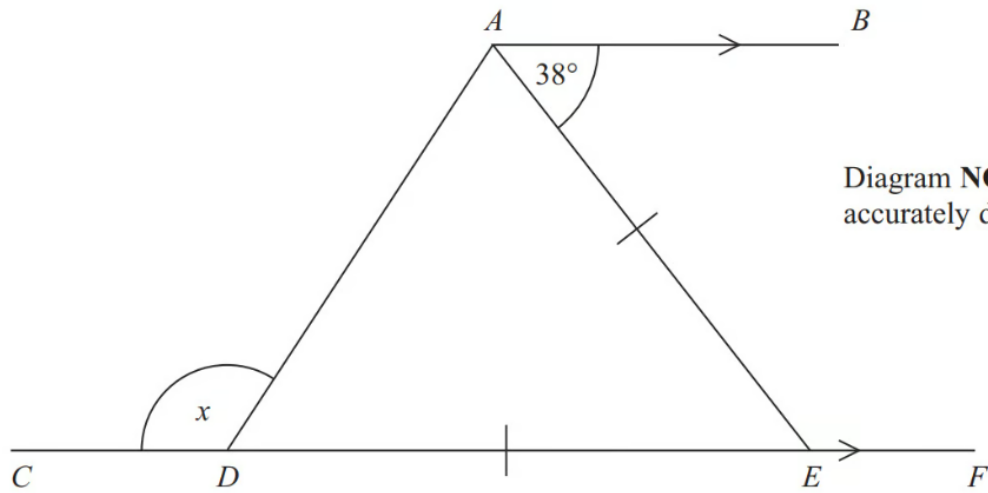


Diagram **NOT**
accurately drawn

CDEF is a straight line.

AB is parallel to *CF*.

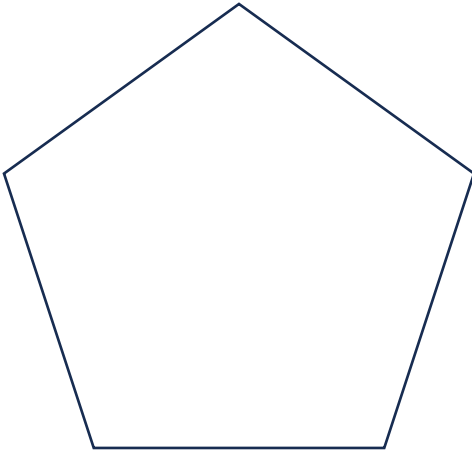
$DE = AE$.

(2)

Work out the size of the angle marked *x*.

You must give reasons for your answer.

09) The following polygon is a regular pentagon. Find the size of an interior angle.



(2)

10) Find the size of an exterior angle of the above polygon.

(2)

Total = 20 Marks

****End****