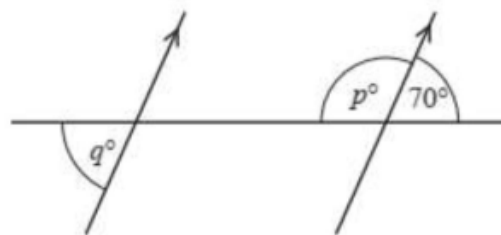




1. The diagram shows a straight line intersecting two parallel lines.

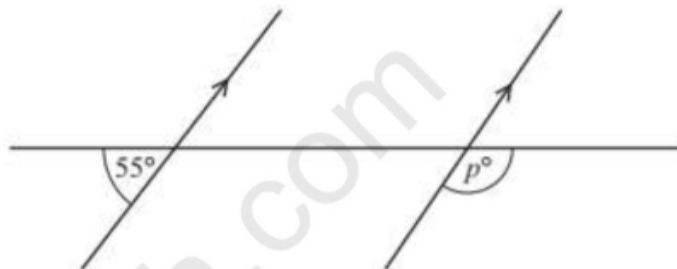
Find the value of p and the value of q . [2]

0580/22/M/J/17 Q8)



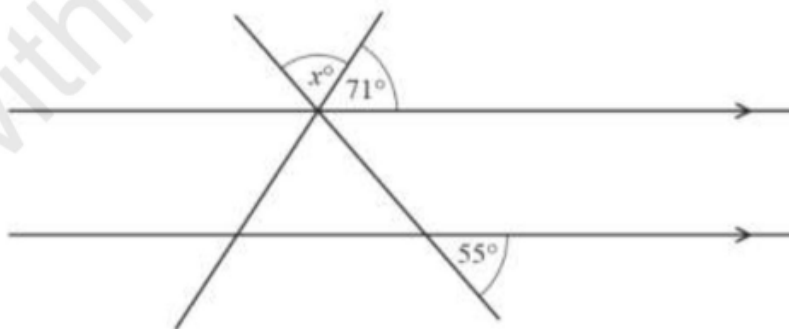
2. Find the value of p [2]

0580/21/O/N/13 Q3)



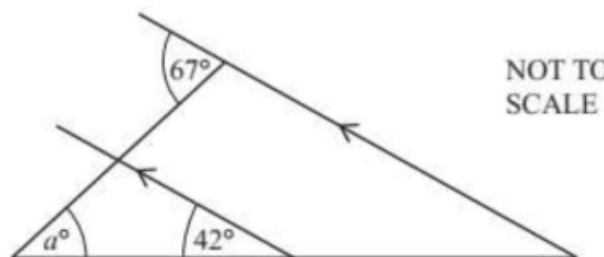
3. The diagram shows two straight lines intersecting two parallel lines. Find the value of x . [3]

0580/21/O/N/22 Q5)



4. Find the value of a

0580/22/O/N/16 Q2)



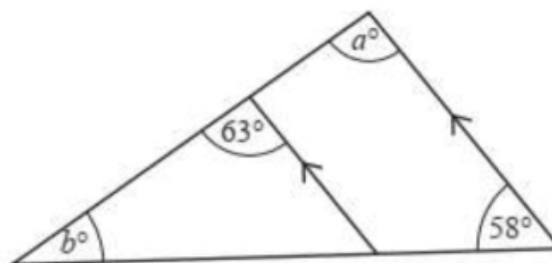


5. Complete the statements. [4]

$a = \dots\dots\dots$ because $\dots\dots\dots$

$b = \dots\dots\dots$ because $\dots\dots\dots$

0580/22/F/M/18 Q15)

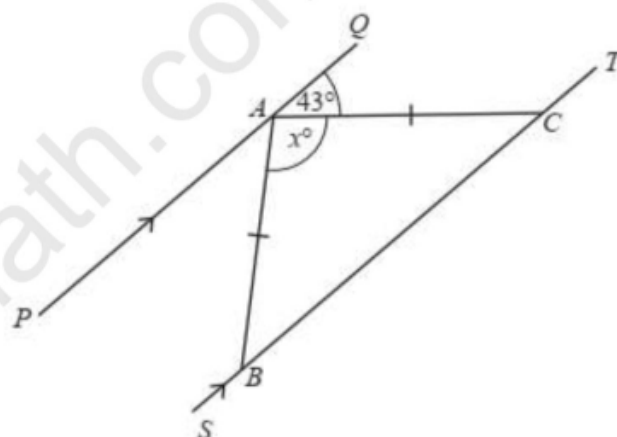


6. The diagram shows two parallel lines PAQ and SBCT.

$AB = AC$ and angle $QAC = 43^\circ$.

Find the value of x [2]

0580/21/M/J/18 Q5)



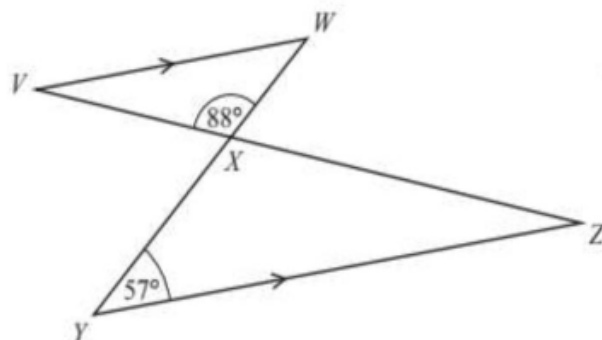
7. Two straight lines VZ and YW intersect at X.

VW is parallel to YZ, angle $XYZ = 57^\circ$ and

angle $VXW = 88^\circ$.

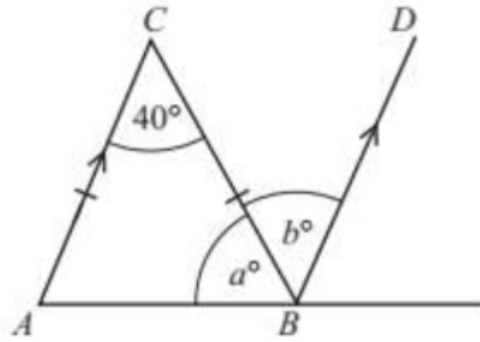
Find angle WVX . [2]

0580/22/F/M/15 Q20(a)

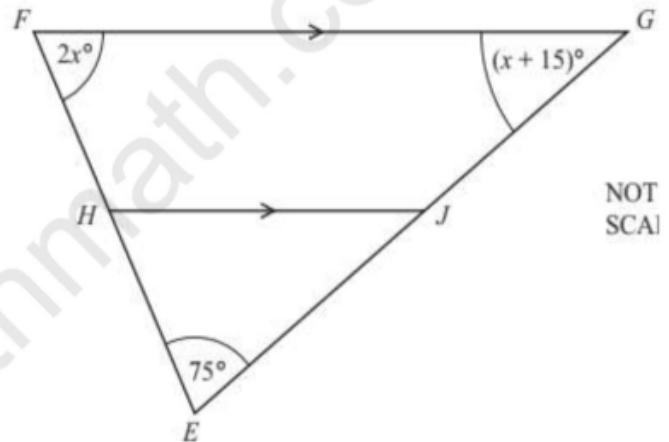




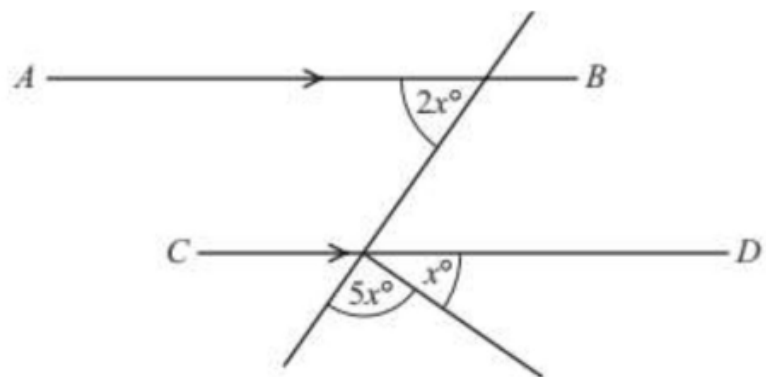
8. Triangle ABC is isosceles and AC is parallel to BD.
Find the value of a and the value of b . [2]
0580/21/M/J/16 Q9)



9. EFG is a triangle.
HJ is parallel to FG.
Angle FEG = 75° .
Angle EFG = $2x^\circ$ and angle FGE = $(x + 15)^\circ$.
(i) Find the value of x . [2]
(ii) Find angle HJG. [1]
0580/43/M/J/11 Q10 (b)



10. AB is parallel to CD.
Calculate the value of x . [3]
0580/21/M/J/11 Q9)

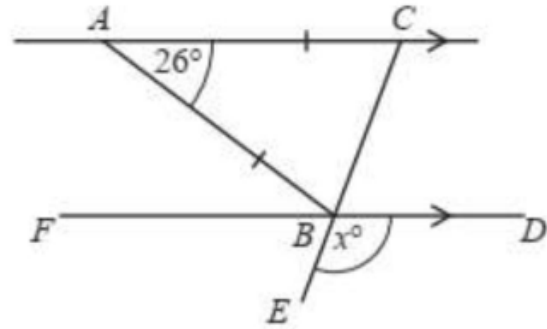




11. AC is parallel to FBD, ABC is an isosceles triangle and CBE is a straight line.

Find the value of x . [3]

0580/42/M/J/19 Q2)(a)

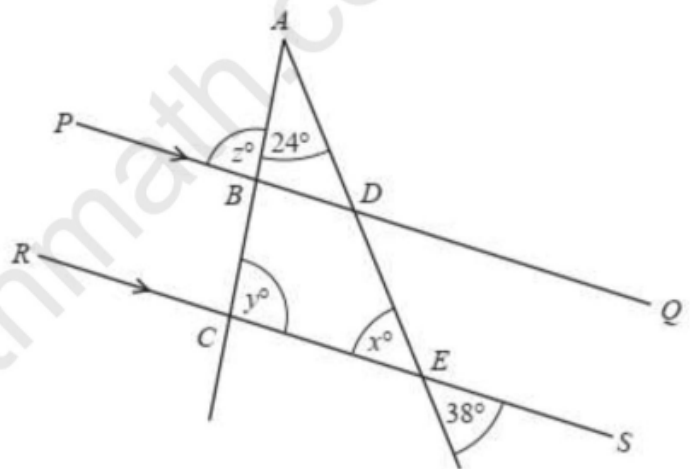


12. PQ is parallel to RS.

ABC and ADE are straight lines.

Find the values of x , y and z . [3]

0580/43/M/J/17 Q2)(a)



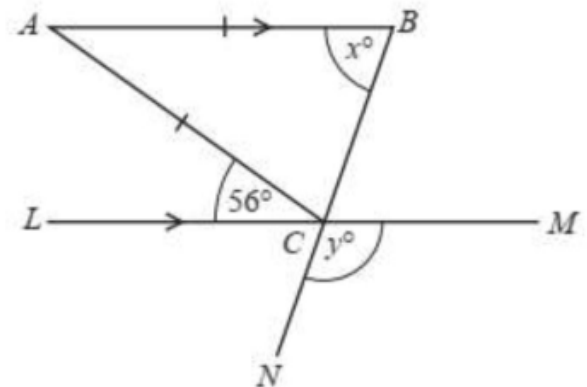
13. The diagram shows an isosceles triangle ABC with $AB = AC$.

LCM and BCN are straight lines and LCM is parallel to AB.

Angle ACL = 56° .

Find the value of x and the value of y . [4]

0580/21/O/N/18 Q16)





14. ABCDEF is a hexagon.

AB is parallel to ED and BC is parallel to FE.

YFE and YABX are straight lines.

Angle CBX = 32° and angle EFA = 90° .

Calculate the value of

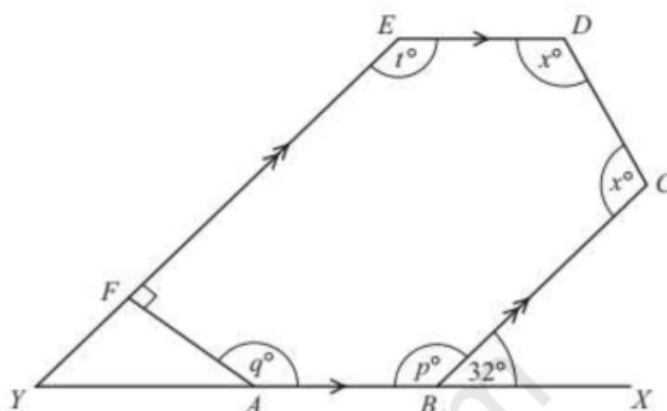
(i) p , [1]

(ii) q , [2]

(iii) t , [1]

(iv) x , [3]

0580/43/M/J/14 Q7 (a)



15. The trapezium, ABCD, has four angles as shown.

All the angles are in degrees.

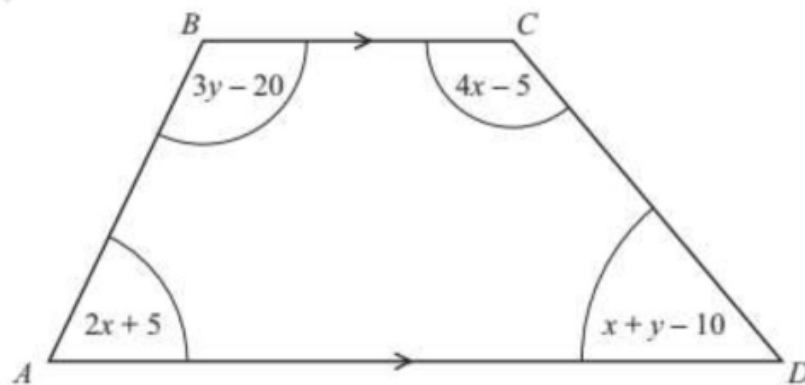
(i) Show that $7x + 4y = 390$. [1]

(ii) Show that $2x + 3y = 195$. [1]

(iii) Solve these simultaneous equations. [4]

(iv) Use your answer to part (d)(iii) to find the sizes of all four angles of the trapezium. [1]

0580/43/O/N/13 Q4



Answers

Q1) 110 , 70	Q6) 94	Q11) 103
Q2) 125	Q7) 35	Q12) 38 ,118 , 62
Q3) 54	Q8) 70 , 40	Q13) 62 and 118
Q4) 25	Q9) (i)30 (ii)135	Q14) (i)148 (ii) 122 (iii)148 (iv)106
Q5) a = 63 (corresponding angles) b = 59 (sum of angles in a triangle)	Q10) 22.5	Q15) (iii)30 , 45 (iv) 65, 115, 115, 65