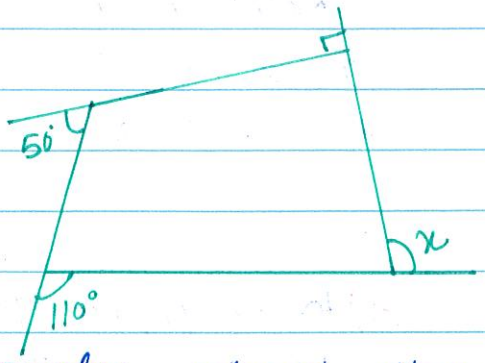
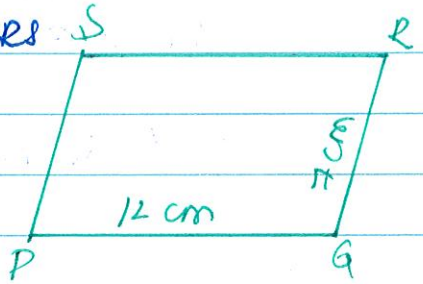
Chapter-3 (Understanding Quadrilaterals)

1) Find measure x in fig.

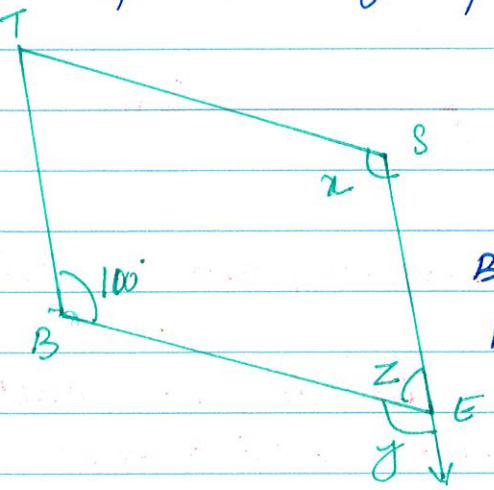


2) Find the number of sides of a regular polygon whose each exterior angle has a measure of 45°

3) Find the perimeter of the parallelogram PQRS

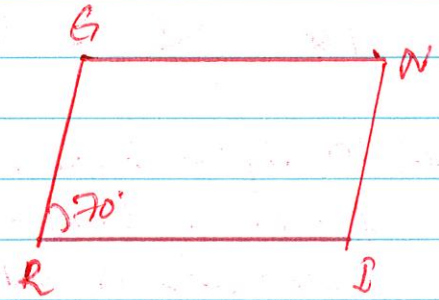


4)

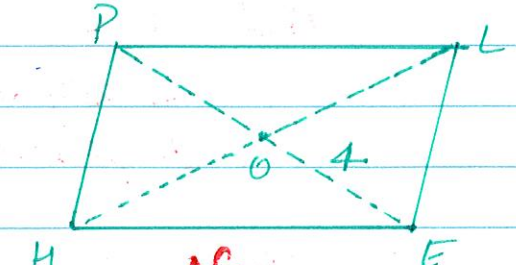


BEST is a ||gram.
Find the value of x, y & z.

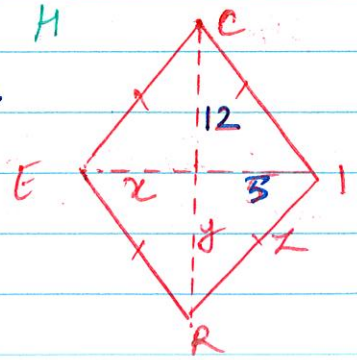
5) In a ||gram RING, find all the other angles.



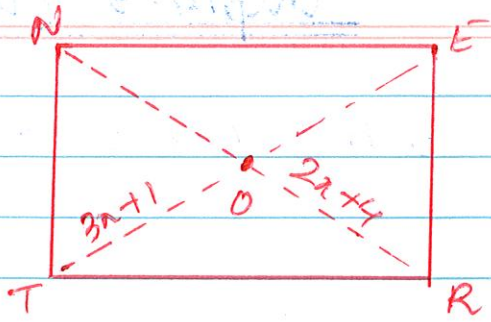
6) In ||gram HELP, Given OE = 4 cm
HL is 5 more than PE. Find OH.



7) RICE is a rhombus.
Find x, y, z. Justify your findings.

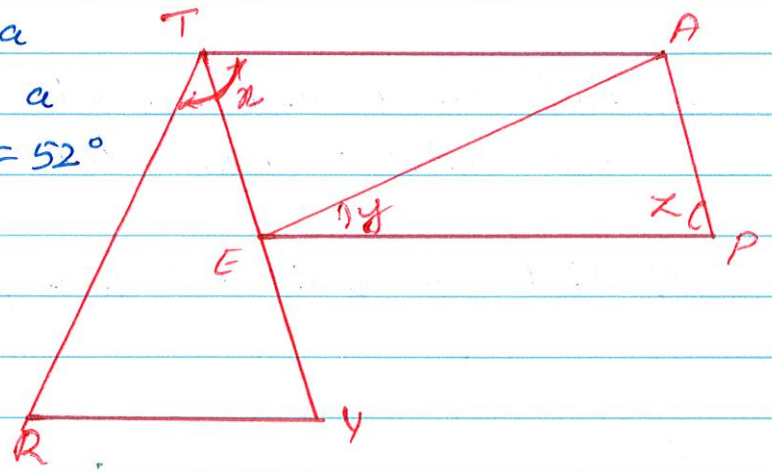


8) RENT is a rectangle. Its diagonal meet at O. Find x if OR = 2x+4 and OT = 3x+1



9) In the figure TRY is a triangle and TAPE is a parallelogram. ∠RTY = 52°
TA ∥ RY, ∠TRY = 64°
∠TAE = 38°.

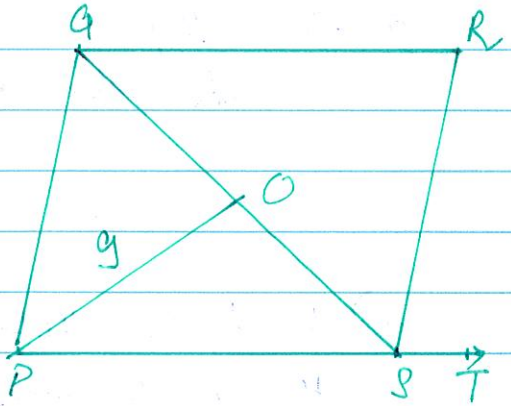
Find the value of x, y, z.



10) If PQRS is a parallelogram, then the value of ∠P − ∠R ?

11) EFGH is a rectangle, its diagonal meet at O. Find x if HO = 8x+4 and OE = 24x−8. Also find the length of its diagonals.

12) In ∥gram PQRS, O is the midpoint of SQ. If ∠RST = 55°, QR = 10 cm
PQ = 12.5 cm and PO = 9 cm.
Find (a) ∠S (b) ∠R
(c) diagonal PR
(d) perimeter of PQRS



13) PARK is a rectangle. Find x, if PR = 3x, AK = 2x+3

14) In a ∥gram JUMP, ∠J = (3x−40)°, ∠P = (2x−10)°. JU = 15cm and UM = 8cm. Find (a) all the angles of a ∥gram
(b) Perimeter of the parallelogram.