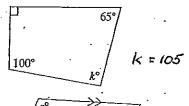
Topic test 3: Geometrical figures continued

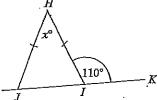
a = 100

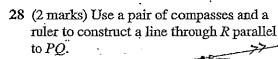
d



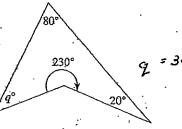
27 (2 marks) Find x, giving reasons.







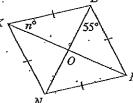
f



25 (2 marks) Sketch a right-angled triangle ΔPQR . Label its angles P, Q and R and correctly label its sides p, q and r.

Two to check

29 (2 marks) Find n, giving reasons.

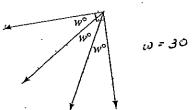


(Diagonals bised it vertex engles)
n° = 150-55-90°

F. 35

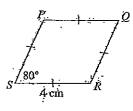
30 (12 marks) Find the value of each pronumeral.

`.

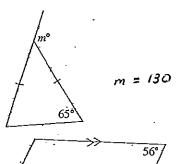


26 (4 marks) Construct this rhombus *PQRS*.

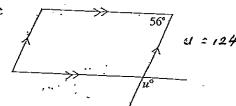
Tutor to check



ט

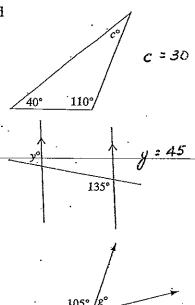


- c



Topic test 3: Geometric figures continued





31 (3 marks) Construct a triangle $\triangle ABC$ where a = 4 cm, $\angle C = 110^{\circ}$ and $\angle B = 20^{\circ}$.

9 = 65

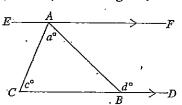
Tetor to creek

32 (6 marks)

- a Explain in your own words what a rectangle is.
 - · Opp. Sides equal + parallel
 - · Diagonals bisect one another
 - · Each vertex angle is 90°
- b Write one property about the sides of a rectangle. Opposite sides are equal
- c Write one property about the diagonals of a rectangle.

Diagonals bisect each other,

33 (7 marks) In the diagram, $EF \parallel CD$.



- a Which angle in △ABC is equal to ∠EAC?

 Why?

 C° (Alternate Ls EF //CO)
- b Hence write an expression for the size of $\angle EAB$. $a^{\circ} = d^{\circ} c^{\circ}$ (Ext. Lof $\triangle AB$)
- c What types of angles are ZEAB and ZABD?

 Alternate Zs.

 \vec{d} Hence write an expression for the value of \vec{d} .

of d. de ate

e What does this prove about the exterior angle of a triangle?

Ext. Lof & is equal to the sum of the inverior opp. Ls.

END OF TEST.

Use the rest of this column for extra working space.