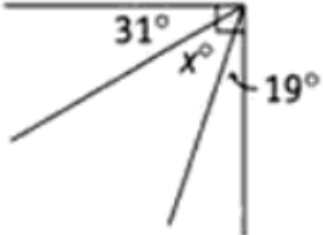
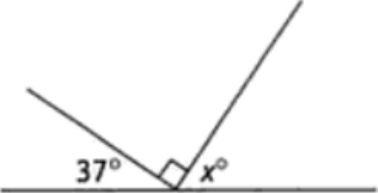
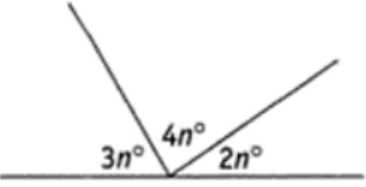

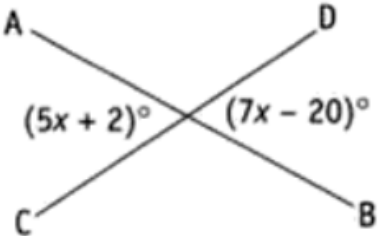
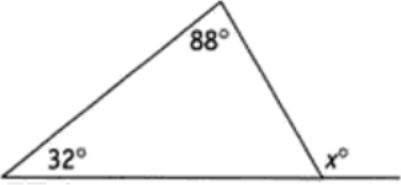
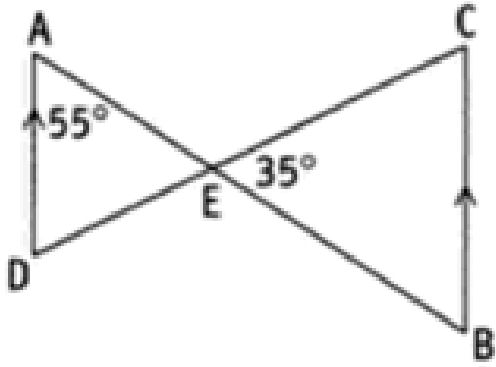


Properties of Geometrical Figures Topic Test

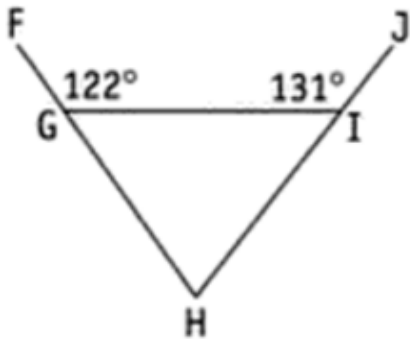
1. Find the pronumeral in each diagram giving reasons.

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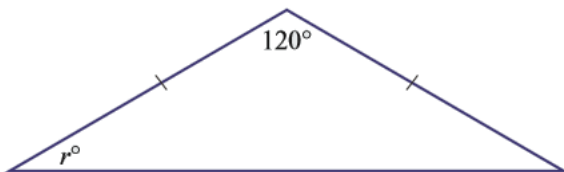
2. AB and CD intersect at E. Find the size of $\angle ECB$ giving reasons.



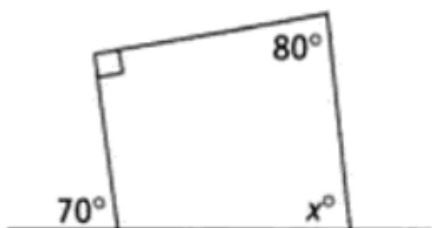
3. Find $\angle FHJ$ giving reasons.



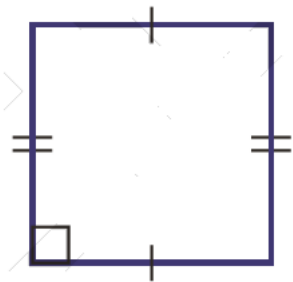
4. Find r giving reasons.

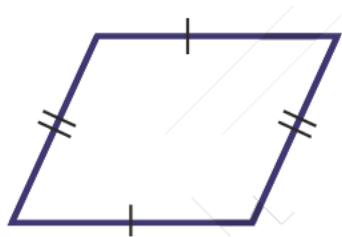


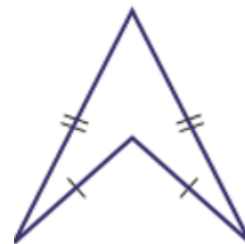
5. Find x giving reasons.



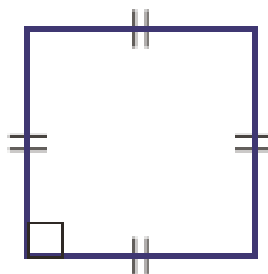
6. Based on the information in the diagrams below, choose the best name for each of these shapes. Each shape has a different name.

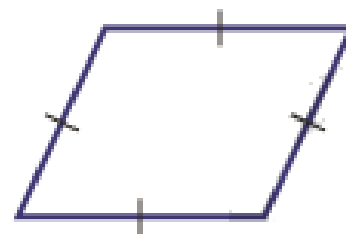




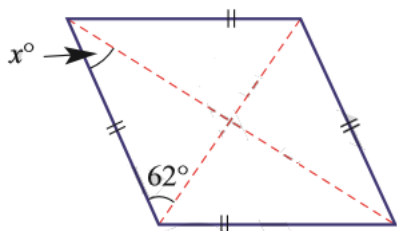




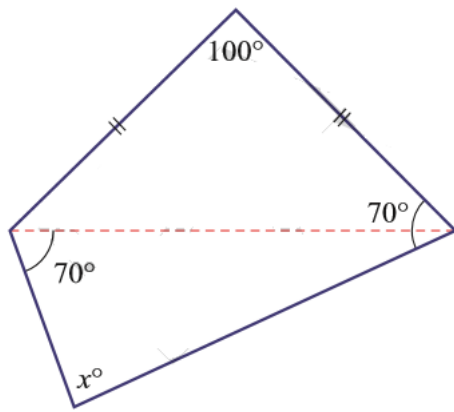




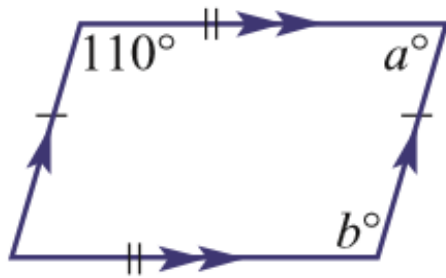
7. Find x giving reasons.



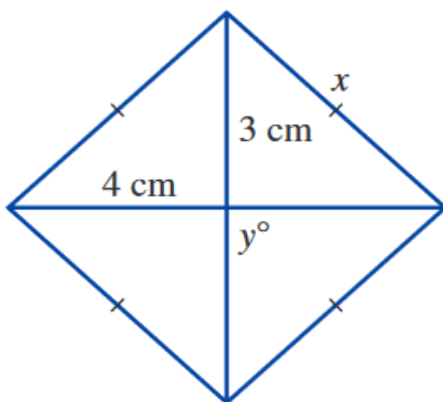
8. Find x giving reasons.



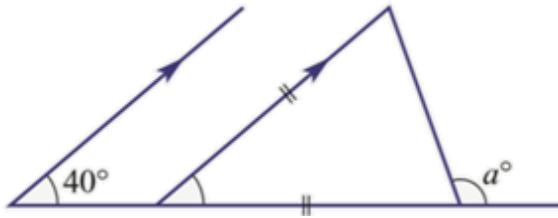
9. Find a and b giving reasons.



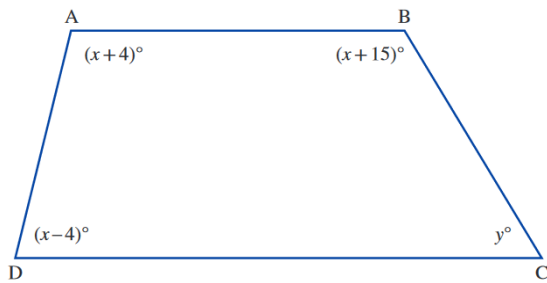
10. Find x and y giving reasons.



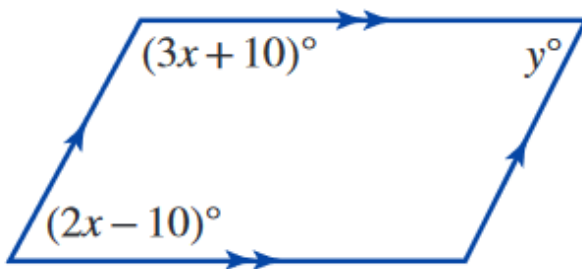
11. Find a giving reasons.



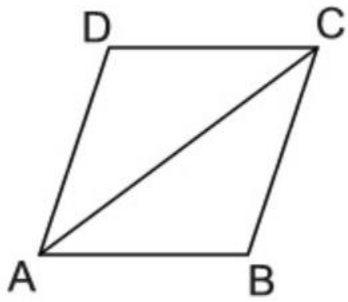
12. Find x and y giving reasons if $ABCD$ is a trapezium with $AB \parallel DC$.



13. Find x and y giving reasons.



14. ABCD is a rhombus. $\angle CAB = 35^\circ$. Find $\angle CDA$.



15. Challenge: ABCD is a rectangle. Find the size of $\angle BEF$ giving reasons.

