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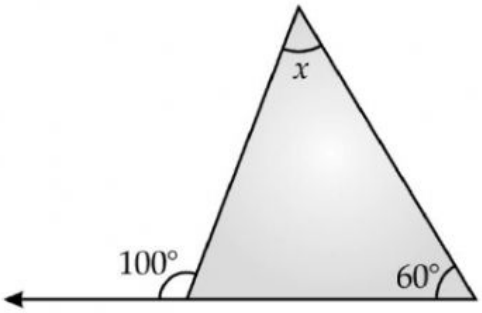
Concept_Grade-9_Lines and Angles

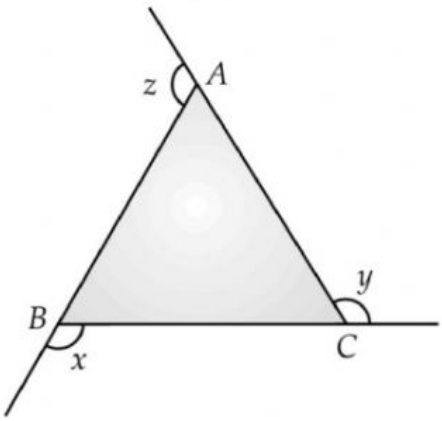
Triangle

1. An exterior angle of a triangle is 80° and two interior opposite angles are equal. What will be the measure of each?

2. What is the value of x in the figure given below ?



3. In the figure below, if x, y and z are exterior angles of ΔABC, then calculate the value of x + y + z.



4. In ΔABC, ∠A = ∠B/2 = ∠C/6, then what will be the measure of ∠A?

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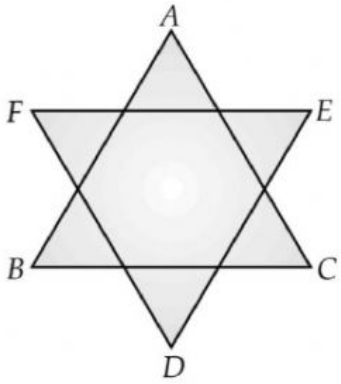
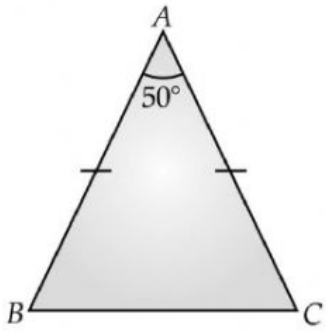
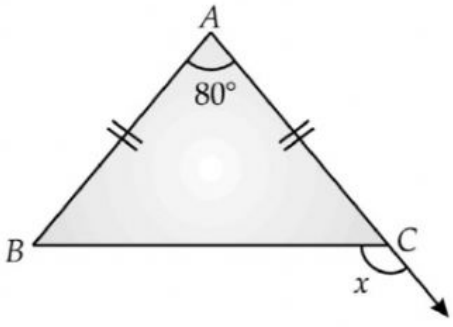
5. In the figure below, if ∠A + ∠B + ∠C + ∠D + ∠E + ∠F = k right angles, then what is the value of k ?



6. In the given figure, ABC is an isosceles triangle with AB = AC and ∠A = 50°. Calculate ∠B



7. In the fig. below, in ΔABC, AB = AC, then calculate the value of x.



8. In ΔABC, ∠A + ∠B = 65° and ∠B + ∠C = 140°, find the value of ∠B and ∠C

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9. In figure, PQ ⊥PR, QP II RL, ∠RQT = 38° and ∠QTL = 75°. Find x and y

10. In ΔABC, if ∠A = (2x - 5°), ∠B = (5x + 5°), ∠C = (3x + 50°), then find the value of x, ∠A, ∠B and ∠C.