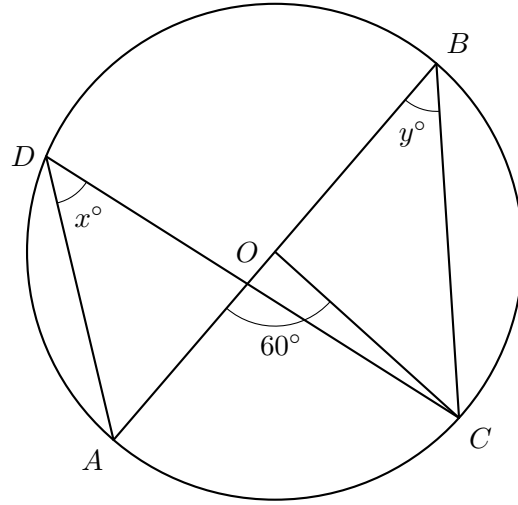
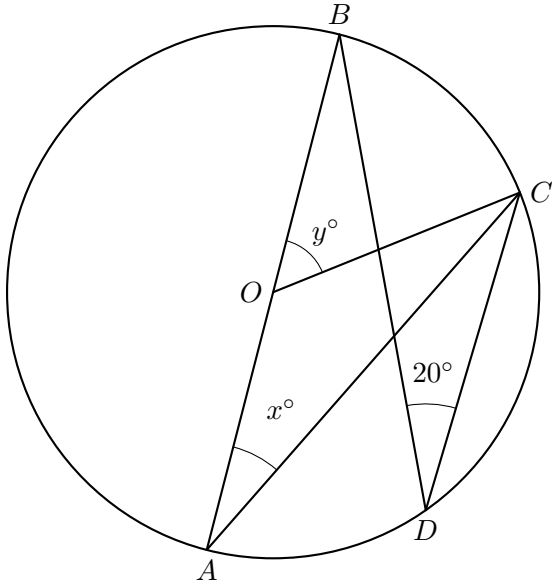


QUICK REVIEW - CIRCLE GEOMETRY & TRIANGLES

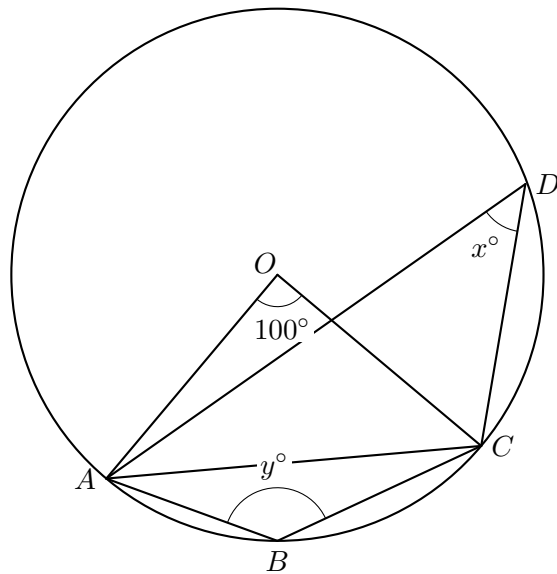
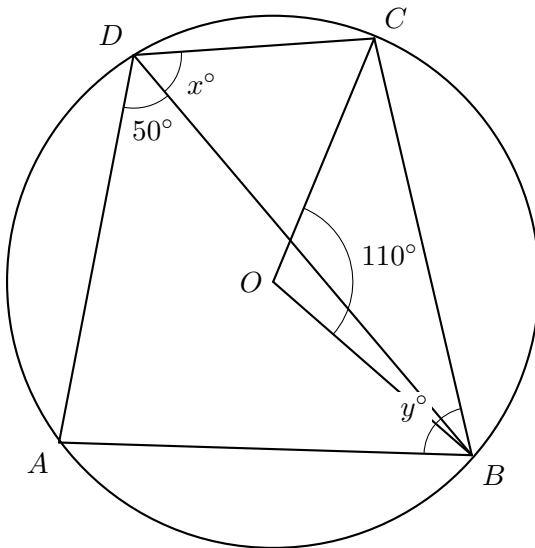
Mr. Merrick · February 19, 2026

This packet is a **quick** review of circle geometry. You should do more practice if you feel you need a more comprehensive review.

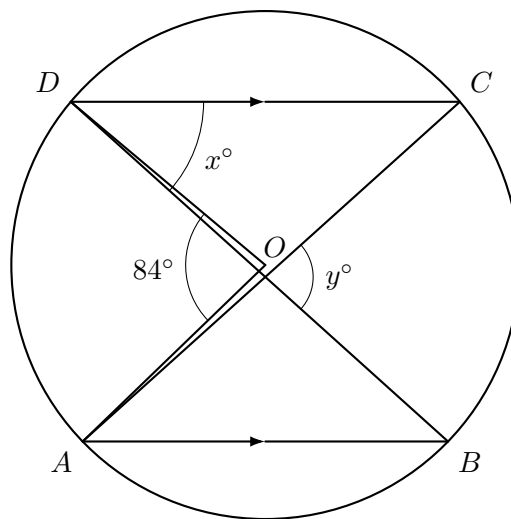
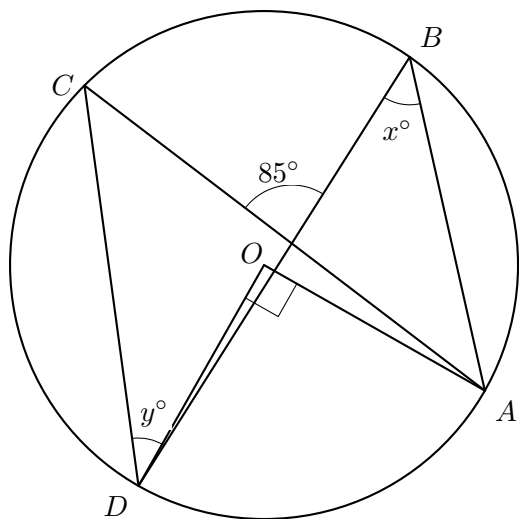
Given that O is the center of the circle and AOB is a straight line, find the value of x and y in each case:



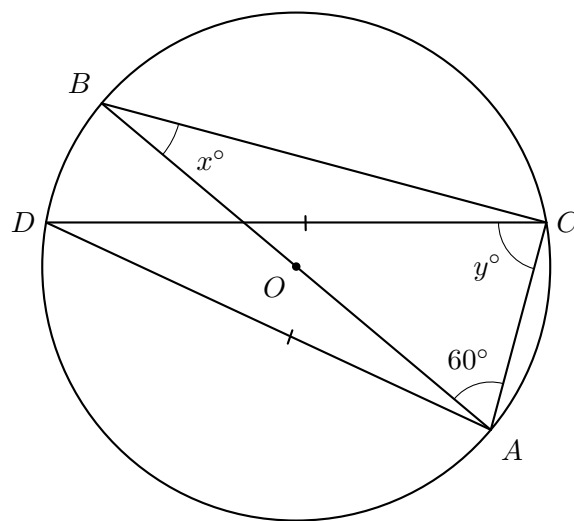
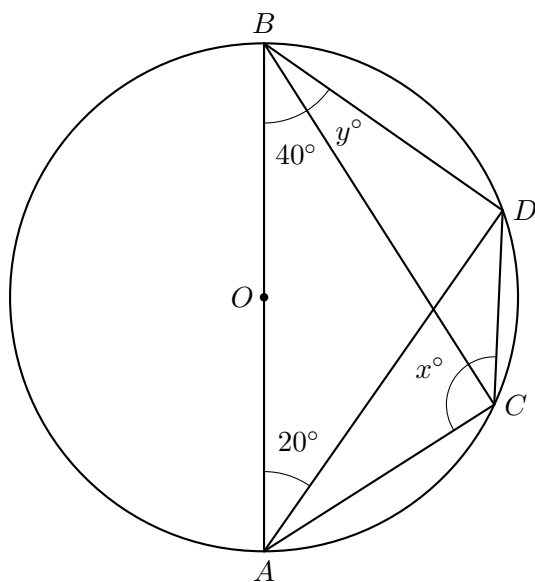
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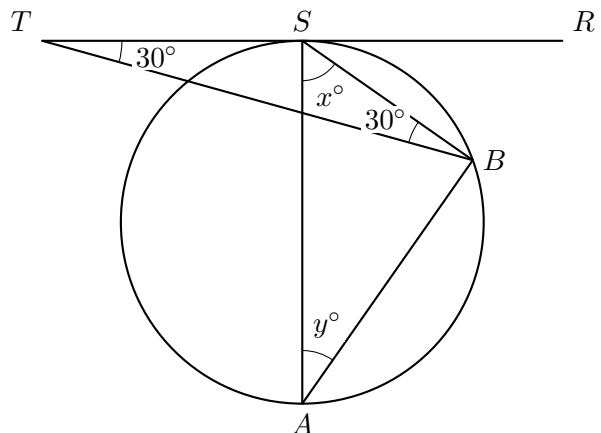
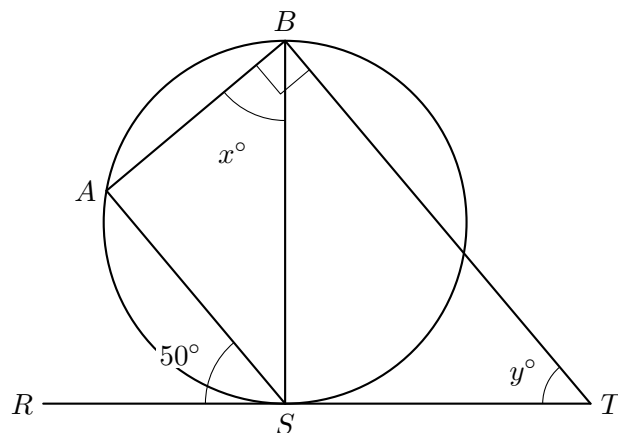
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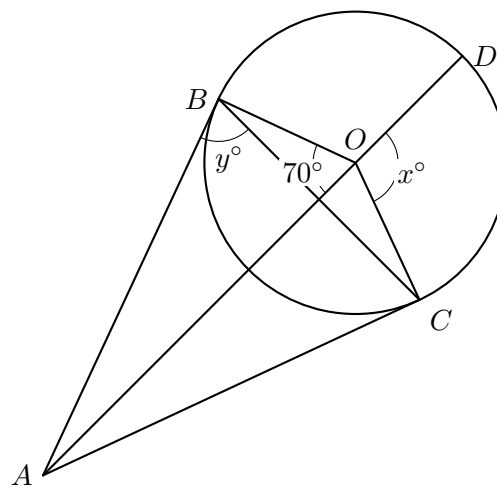
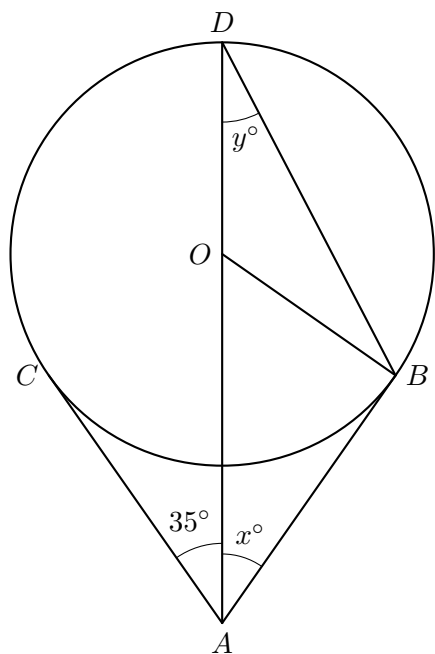
Given that O is the center of the circle and AOB is a straight line, find the value of x and y in each case:



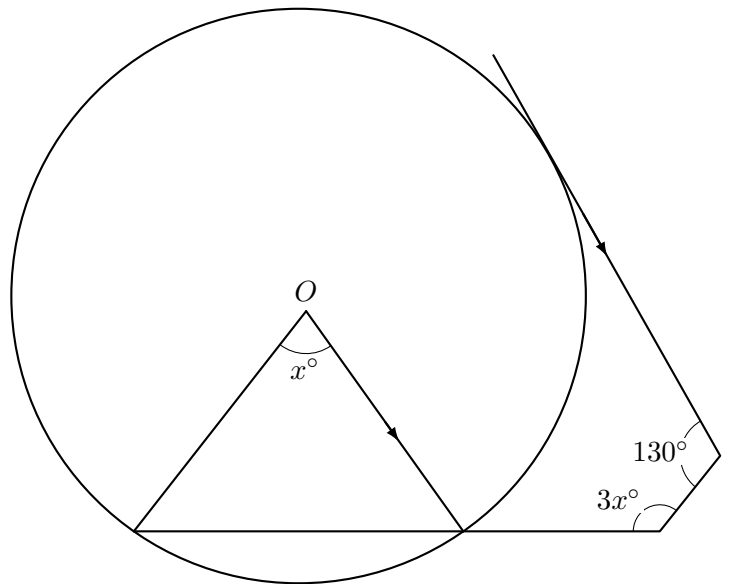
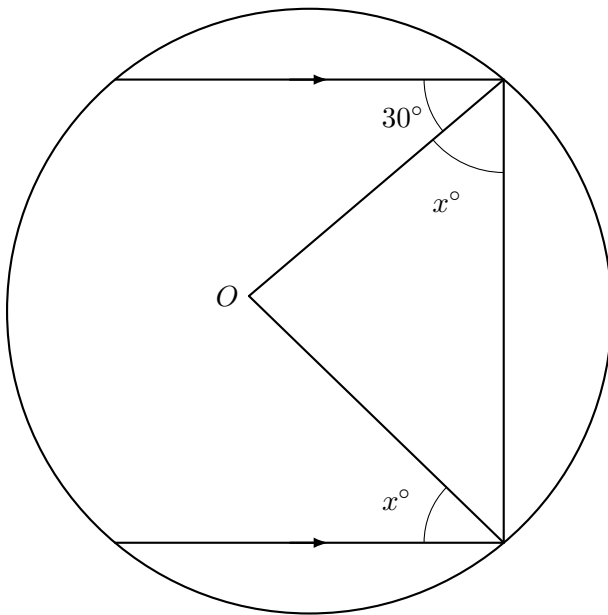
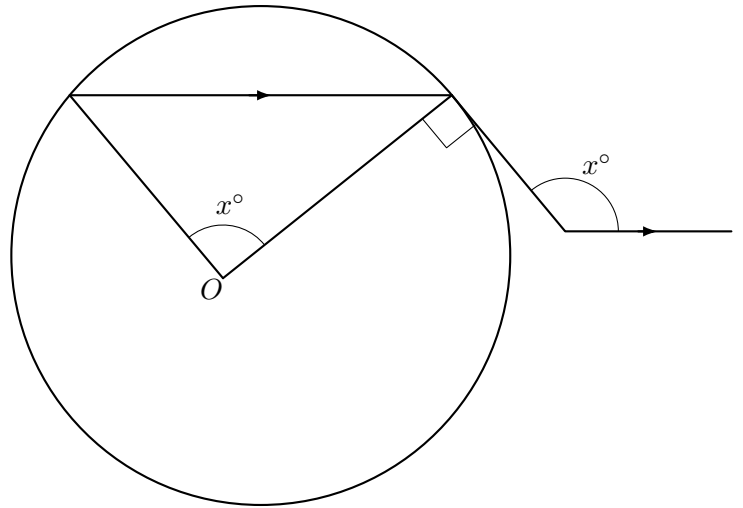
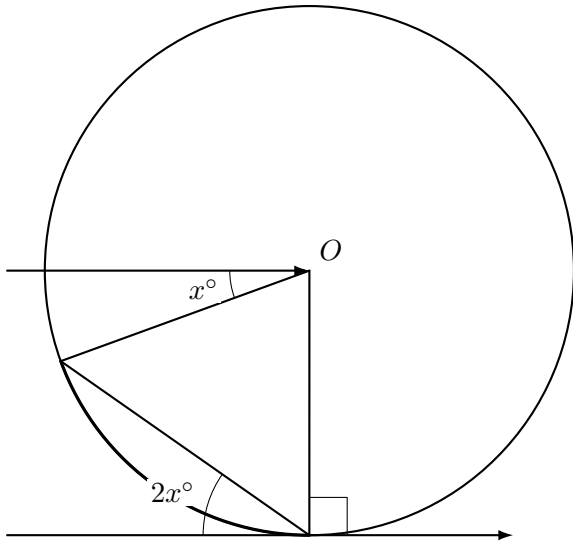
Given that RST is the tangent to the circle at S , find the value of x and y in each case:



Given that O is the center of the circle, AOD is a straight line and AB and AC are tangents to the circle at B and C respectively, find the value of x and y in each case.



In each figure O is the center of the circle. Form an equation in x and solve the equation.



For each, construct *all possible* triangles with the information given.

- (a) $\triangle ABC$, $AB = 3$ cm, $BC = 2$ cm, $AC = 3$ cm

Solution: Exactly one triangle (SSS).

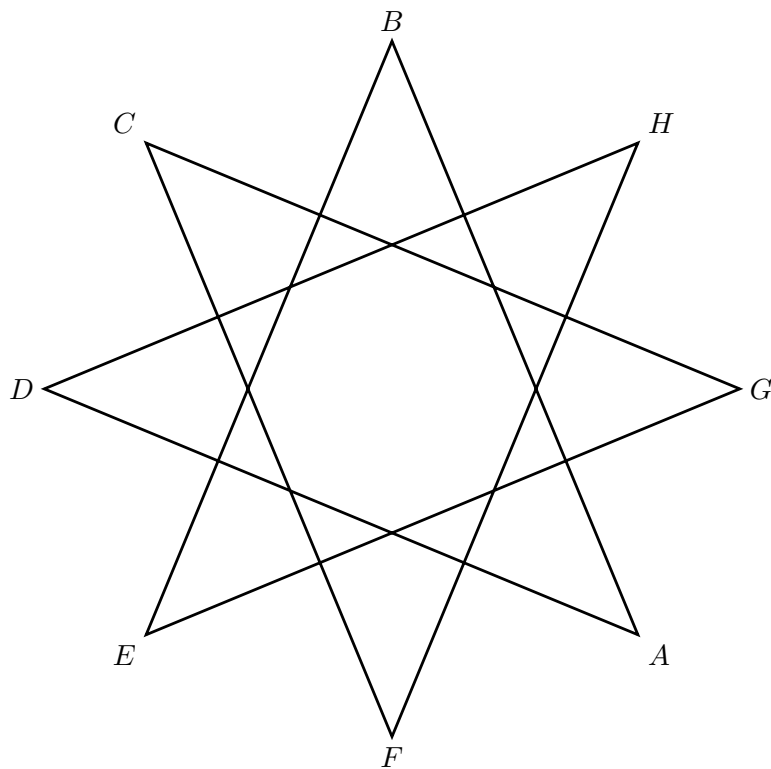
- (b) $\triangle ABC$, $\angle BAC = 40^\circ$, $BC = 6$ cm, $AC = 10$ cm

Solution: No triangle: $\sin B = \frac{10 \sin 40^\circ}{6} > 1$.

- (c) $\triangle ABC$, $\angle BCA = 33^\circ$, $AB = 6$ cm, $AC = 10$ cm

Solution: Two triangles (SSA ambiguous case).

Find the sum of angles A, B, C, D, E, F, G , and H .



Solution: $A + B + C + D + E + F + G + H = 360^\circ$.