WORKSHEET

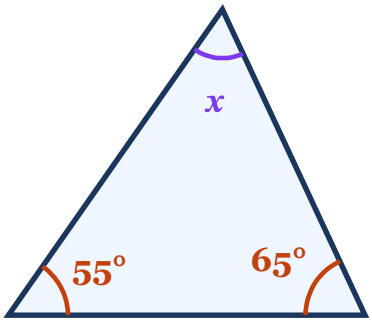
Name: _____ Class: _____

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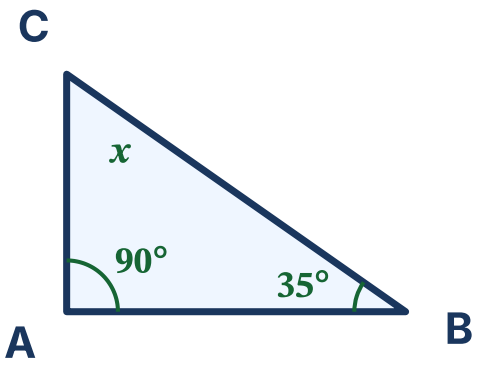
Answer all questions. Show all your working — marks are awarded for method as well as the final answer.

1 Two angles of a triangle (the third is $30°$) are $(2x + 10)°$ and $(4x + 20)°$. Determine the value of x, and hence the size of each angle. **(4)**

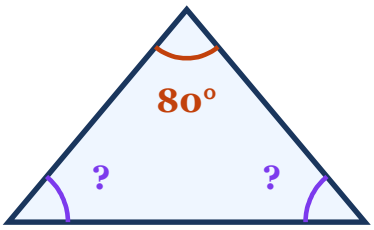
2 A triangle has angles $55°$, $65°$ and x. Find x. *(basic)* **(1)**



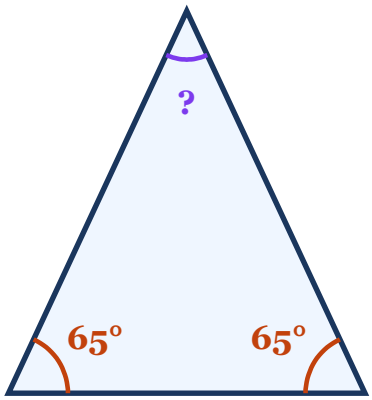
3 A right-angled triangle has one other angle of $35°$. Find the third. *(right-angled)* (2)



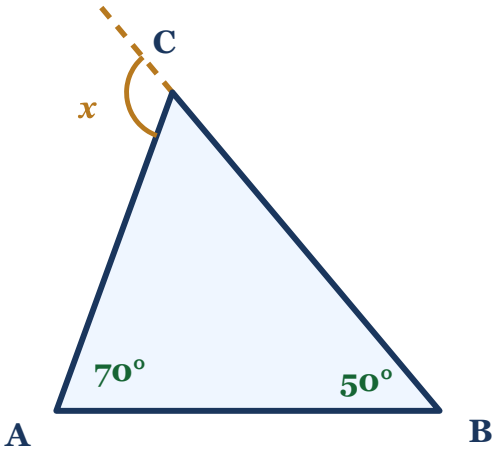
4 Isosceles triangle, apex $80°$. Find each base angle. *(isosceles)* (2)



5 Isosceles triangle, base angles $65°$ each. Find the apex. *(isosceles)* (2)



6 Interior angles $70°$ and $50°$; find the exterior angle at the third vertex. *(exterior)* (2)

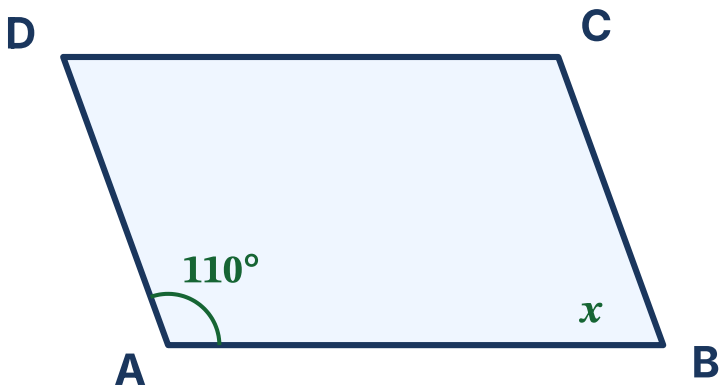


7 Triangle angles are x, x and $4x$. Find x. *(solve)* (3)

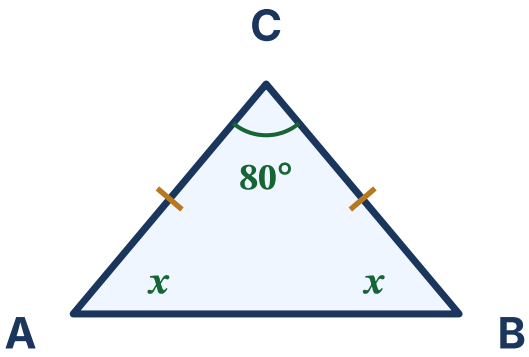
8 Triangle angles are $2x$, $3x$ and $4x$. Find the largest angle. *(solve)* (3)

9 Quadrilateral angles $120°$, $80°$, $70°$ and x. Find x. *(quad)* (2)

10 In parallelogram ABCD below, $\hat{A} = 110°$. Determine the size of x, giving a reason. (3)



11 Two angles of a triangle are equal; the third is $80°$. Find each equal angle. *(isosceles)* **(2)**



TOTAL: 26 marks

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