MEMORANDUM

Naam: ..... Klas: .....

Datum: ..... PUNT ____ / 15

Beantwoord al die vrae. Toon al jou bewerkings — punte word vir die metode sowel as vir die finale antwoord toegeken.
Onderwyserskopie: aanvaar enige korrekte ekwivalente metode.

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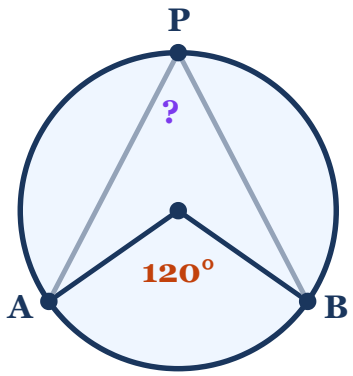
1 'n Boog onderspan 120° by die middelpunt. Omtrekshoek? *(middelpunt/omtrek)* (2)



O is die middelpunt

120° ÷ 2 = **60°** ✓✓ (2)

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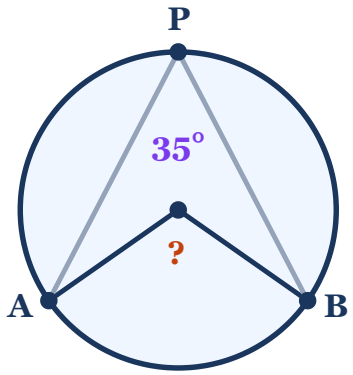
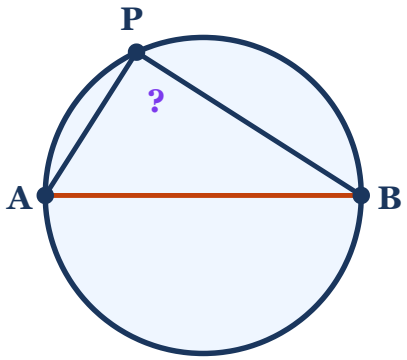
2 Die omtrekshoek is 35°. Middelpuntshoek (dieselfde boog)? *(middelpunt/omtrek)* (2)



O is die middelpunt

2 × 35° = **70°** ✓✓ (2)

3 AB is 'n middellyn, P op die sirkel. Wat is $A\hat{P}B$? *(halwe sirkel)* (1)



AB is 'n middellyn

90° (hoek in 'n halwe sirkel) ✓ (1)

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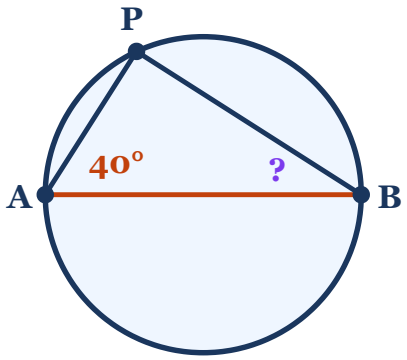
4 In 'n halwe sirkel is $P\hat{A}B = 40°$. Bepaal $A\hat{B}P$. *(halwe sirkel)* (2)



AB is 'n middellyn

$180° - 90° - 40° = \mathbf{50°}$ ✓✓ (2)

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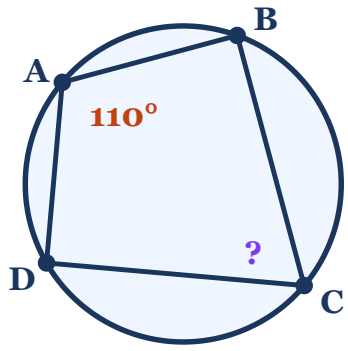
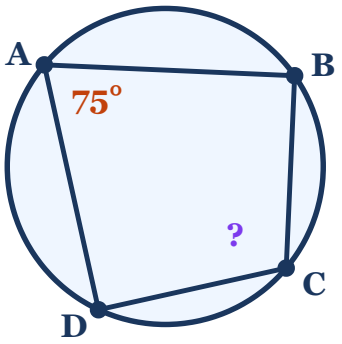
5 'n Hoek van 'n koordevierhoek is $110°$. Teenoorstaande hoek? *(koordevierhoek)* (1)



ABCD is 'n koordevierhoek

$180° - 110° = \mathbf{70°}$ ✓ (1)

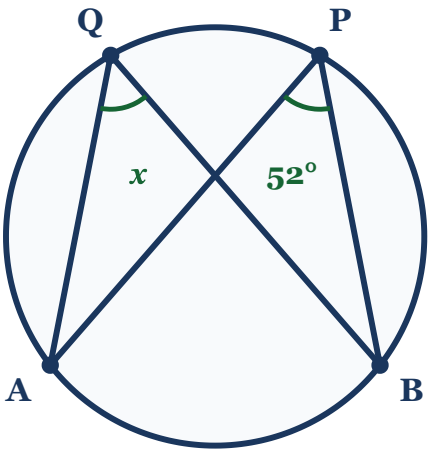
6 'n Hoek van 'n koordevierhoek is 75°. Teenoorstaande hoek? *(koordevierhoek)* (1)



ABCD is 'n koordevierhoek

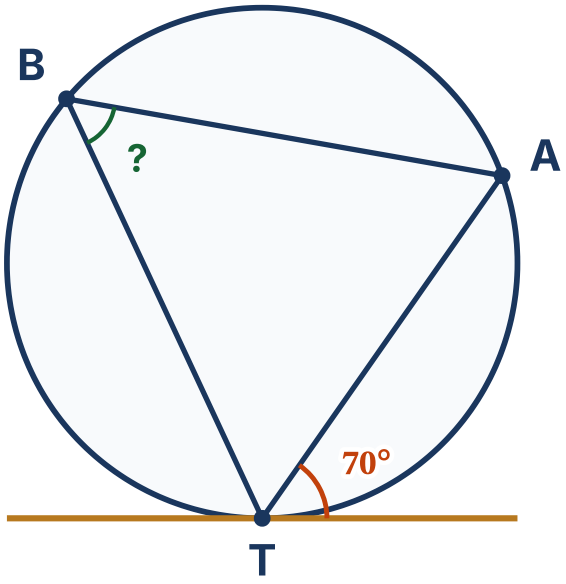
$180° - 75° = \mathbf{105°}$ ✓ (1)

7 Twee hoeke staan op dieselfde boog; een is 52°. Die ander? *(dieselfde segment)* (1)



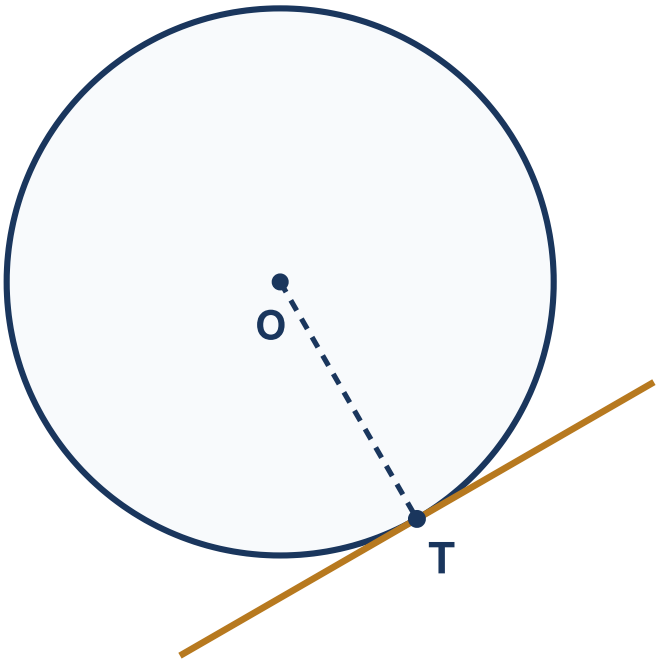
52° (gelyk) ✓ (1)

8 Raaklyn–koord-hoek is 70°. Hoek in die teenoorstaande segment? *(raaklyn–koord)* (2)



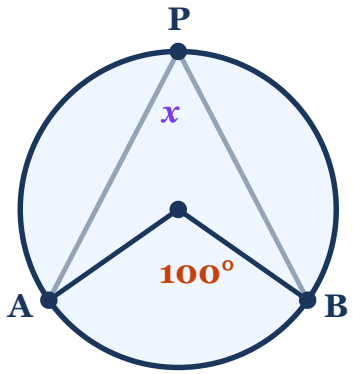
70° ✓✓ (2)

9 'n Raaklyn ontmoet 'n radius by die raakpunt. Wat is die hoek? *(raaklyn–radius)* (1)



90° (raaklyn ⊥ radius) ✓ (1)

10 Middelpuntshoek $= 2x$ en is gelyk aan $100°$. Bepaal x, die omtrekshoek. *(los op)* **(2)**



O is die middelpunt

$2x = 100 \rightarrow x = \mathbf{50°}$ ✓✓ (2)

TOTAAL: 15 punte

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