Die Stelling van Pythagoras (Graad 8)

MEMORANDUM

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

Datum: .....

PUNT ____ / 19

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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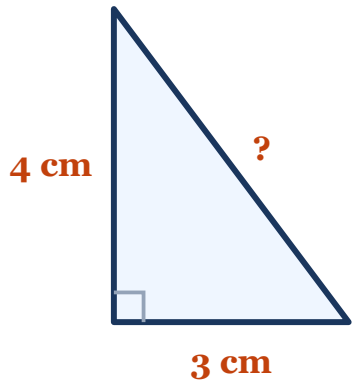
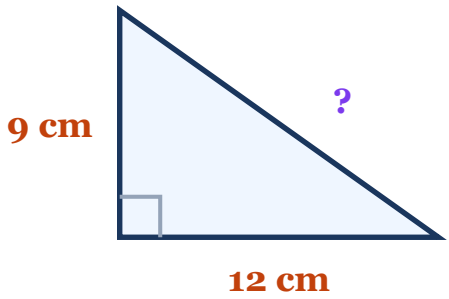
1 Bepaal die skuinssy: sye van 3 cm en 4 cm. (2)



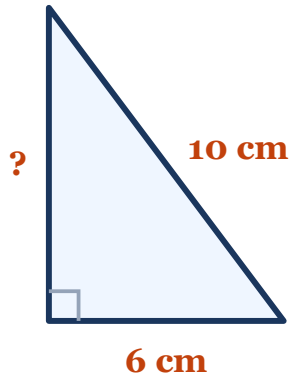
$c^2 = 9 + 16 = 25 \rightarrow$ **5 cm** ✓✓ (2)

2 Bepaal die skuinssy: sye van 9 cm en 12 cm. (2)



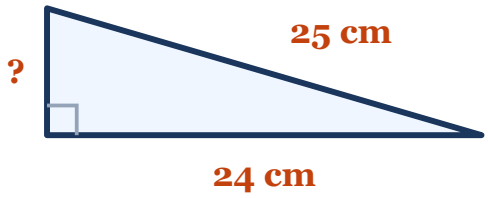
$c^2 = 81 + 144 = 225 \rightarrow$ **15 cm** ✓✓ (2)

3 Bepaal die ontbrekende sy: skuinssy 10 cm, een sy 6 cm. (2)



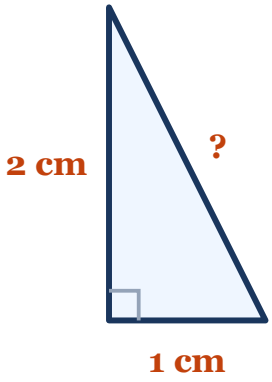
$b^2 = 100 - 36 = 64 \rightarrow$ **8 cm** ✓✓ (2)

4 Bepaal die ontbrekende sy: skuinssy 25 cm, een sy 24 cm. (2)



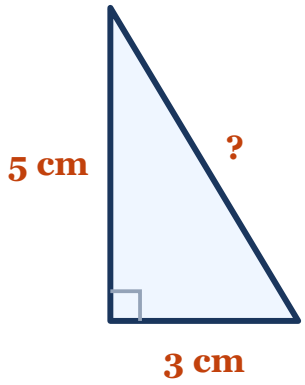
$b^2 = 625 - 576 = 49 \rightarrow$ **7 cm** ✓✓ (2)

5 Bepaal die skuinssy in wortelvorm: sye van 1 cm en 2 cm. (2)



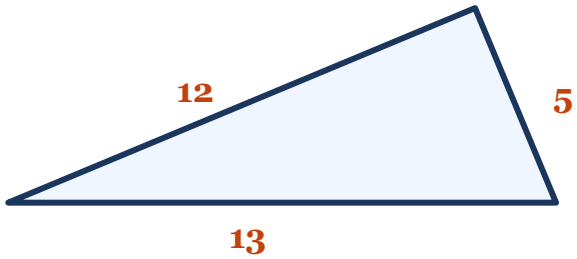
$c^2 = 1 + 4 = 5 \rightarrow$ **$\sqrt{5}$ cm** ✓✓ (2)

6 Bepaal die skuinssy in wortelvorm: sye van 3 cm en 5 cm. (2)



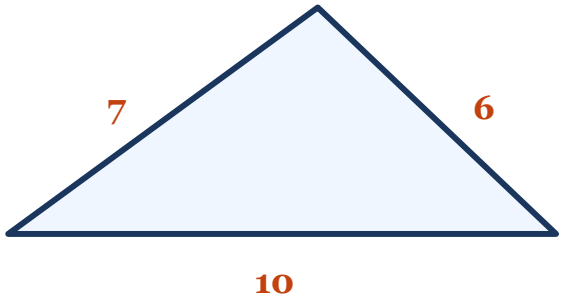
$c^2 = 9 + 25 = 34 \rightarrow \sqrt{34}$ **cm** ✓✓ (2)

7 Is 'n driehoek met sye 5, 12, 13 reghoekig? (2)



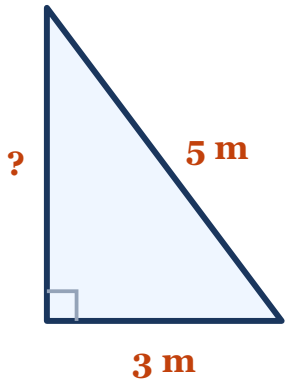
$13^2 = 169$; $25 + 144 = 169 \rightarrow$ **Ja** ✓✓ (2)

8 Is 'n driehoek met sye 6, 7, 10 reghoekig? (2)



100 teenoor $36 + 49 = 85 \rightarrow$ **Nee** ✓✓ (2)

9 'n Leer van 5 m lank staan 3 m van 'n muur af. Hoe hoog teen die muur reik dit? (3)



$h^2 = 25 - 9 = 16 \rightarrow$ **4 m** ✓✓✓ (3)

TOTAAL: 19 punte

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