MEMORANDUM

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

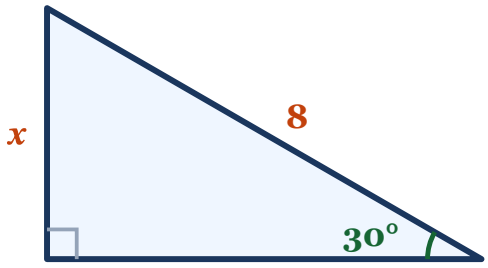
Datum: .....

PUNT ____ / 21

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.

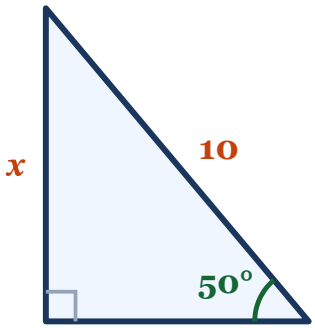
---

1 Bepaal x teenoor 'n hoek van $30°$, skuinssy 8. *(sinus)* (2)



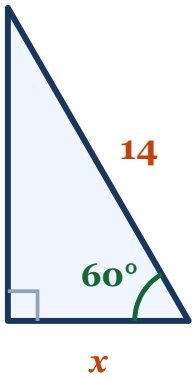
$x = 8 \sin 30° = 8 \times 0{,}5 = \mathbf{4}$ ✓✓ (2)

2 Bepaal x teenoor 'n hoek van $50°$, skuinssy 10. *(sinus)* (2)



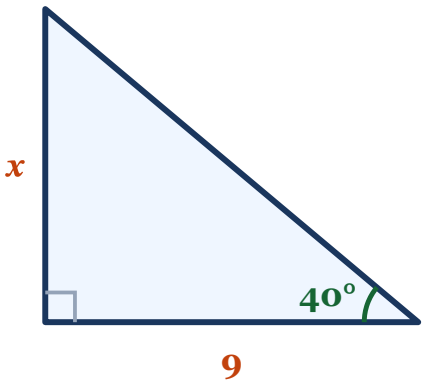
$10 \sin 50° \approx \mathbf{7{,}66}$ ✓✓ (2)

3 Bepaal x aangrensend aan 'n hoek van $60°$, skuinssy 14. *(cosinus)* (2)



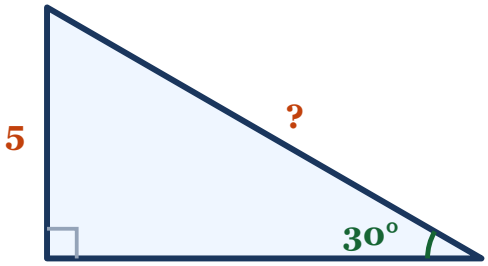
$14 \cos 60° = 14 \times 0{,}5 = \mathbf{7}$ ✓✓ (2)

4 Bepaal x teenoor 'n hoek van $40°$, aangrensende sy 9. *(tangens)* (2)



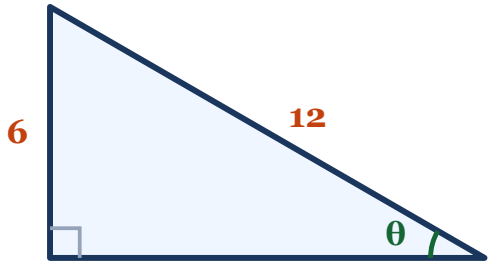
$9 \tan 40° \approx \mathbf{7{,}55}$ ✓✓ (2)

5 Die sy teenoor 'n hoek van $30°$ is 5. Bepaal die skuinssy. *(skuinssy)* (2)



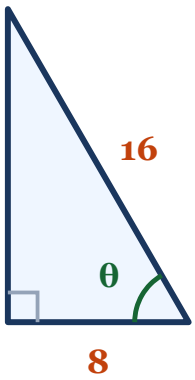
$h = \dfrac{5}{\sin 30°} = \mathbf{10}$ ✓✓ (2)

6 teenoorstaande = 6, skuinssy = 12. Bepaal θ. *(hoek)* (2)



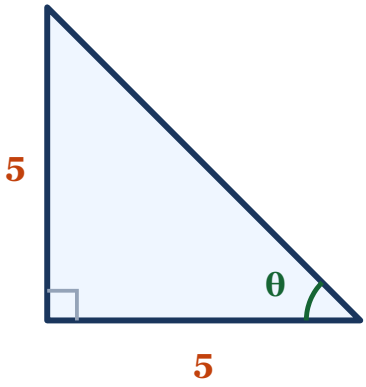
$\sin\theta = 0{,}5 \rightarrow \theta = \mathbf{30°}$ ✓✓ (2)

7 aangrensende = 8, skuinssy = 16. Bepaal θ. *(hoek)* (2)



$\cos\theta = 0{,}5 \rightarrow \theta = \mathbf{60°}$ ✓✓ (2)

8 teenoorstaande = 5, aangrensende = 5. Bepaal θ. *(hoek)* (2)



$\tan\theta = 1 \rightarrow \theta = \mathbf{45°}$ ✓✓ (2)

9 Gee die presiese waarde van $\sin 30°$ en $\tan 45°$. *(spesiaal)* **(2)**

> $\frac{1}{2}$ **en** 1 ✓✓ (2)

10 'n Tou na die bopunt van 'n paal van 6 m maak $40°$ met die grond. Lengte van die tou? *(toepassing)* **(3)**

> $\sin 40° = \frac{6}{L} \rightarrow L = \frac{6}{\sin 40°} \approx 9{,}33$ **m** ✓✓✓ (3)

TOTAAL: 21 punte

© Danemathics — gratis om te druk en vir klasgebruik te deel.