

KLASKAMER 10

GRAAD 10 WISKUNDE: EPISODE 57

TRIGONOMETRIE 3

VRAAG 1:

Los op vir $\theta \in [0^\circ; 90^\circ]$ in elk van die volgende:

a. $2 \sin(\theta - 10^\circ) = 1,48$ (4)

b. $3 \tan(2\theta - 20^\circ) = \sin 30^\circ$ (6)

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TOTAAL: 10 PUNTE

GRAAD 10 WISKUNDE: EPISODE 57 (MEMORANDUM)

TRIGONOMETRIE 3

VRAAG 1

a)	$2\sin(\theta - 10^\circ) = 1,48$ $\therefore \sin(\theta - 10^\circ) = 0,74 \checkmark$ Verwysingshoek: $47,73^\circ \checkmark$ $\therefore \theta - 10^\circ = 47,73^\circ \checkmark$ $\therefore \theta = 57,73^\circ \checkmark$
b)	$3\tan(2\theta - 20^\circ) = \sin 30^\circ$ $\therefore 3\tan(2\theta - 20^\circ) = \frac{1}{2} \checkmark$ $\therefore \tan(2\theta - 20^\circ) = \frac{1}{6} \checkmark$ Verwysingshoek: $9,46^\circ \checkmark$ $\therefore 2\theta - 20^\circ = 9,46^\circ \checkmark$ $\therefore 2\theta = 29,46^\circ \checkmark$ $\therefore \theta = 14,73^\circ \checkmark$

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