8.3.12

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ONTSYFER
WISKUNDE ONDERSTEUNING

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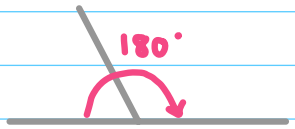
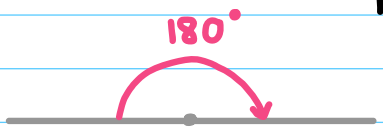
Gr 8 Wiskunde / Mathematics

Meetkunde / Geometry (1)

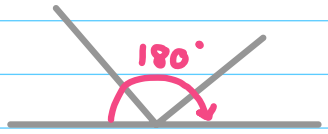
1. Reguitlyn / Straight line

↳ Hoeke op 'n reguitlyn = 180°

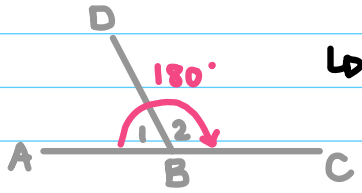




↳ Angles on a straight line = 180°



↳ Bewering



↳ Statement

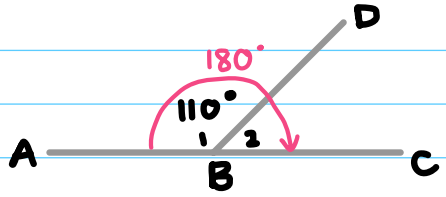
"Al die hoeke saam gee 180°" (+ =)

"All the angles together give 180°" (+ =)

$\hat{B}_1 + \hat{B}_2 = 180°$

Le op 'n reguitlyn
Angles on a straight line

1)



Al die hoeke om punt B = 180°
All the angles around point B = 180°

$\hat{B}_1 + \hat{B}_2 = 180°$

$110° + \hat{B}_2 = 180°$

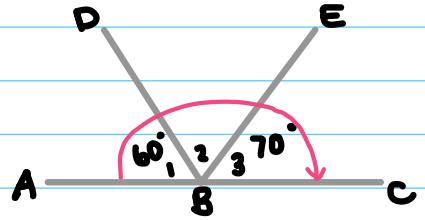
Le op 'n reguitlyn
Angles on a straight line

Kry $\hat{B}_2$ alleen | Get $\hat{B}_2$ alone

$\hat{B}_2 = 180° - 110°$

$\hat{B}_2 = 70°$

2)



$\hat{B}_1 + \hat{B}_2 + \hat{B}_3 = 180°$

$60° + \hat{B}_2 + 70° = 180°$

Le op 'n reguitlyn
Angles on a straight line

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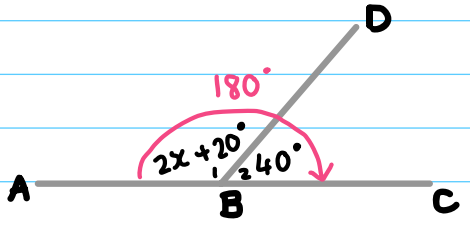
$\hat{B}_2 = 180^\circ - 60^\circ - 70^\circ$

$\hat{B}_2 = 50^\circ$

3)



"Hoeke saam is 180°"
(Maak nie saak wat in hoeke staan)
"Angles are 180° together"
(Doesn't matter what is written inside)

$\hat{B}_1 + \hat{B}_2 = 180^\circ$

Le op 'n reguitlyn
Angles on a straight line

Wat staan in $\hat{B}_1$ en $\hat{B}_2$?
What is written in $\hat{B}_1$ en $\hat{B}_2$?

$(2x+20^\circ) + 40^\circ = 180^\circ$

$2x + 20^\circ + 40^\circ = 180^\circ$

$2x = 180^\circ - 20^\circ - 40^\circ$

$\frac{2x}{2} = \frac{120^\circ}{2}$

$x = 60^\circ$

Vra altyd vir jouself by elke vraag:
"Wat sien ek?" 1. Reguitlyn ∴ 180°

Always ask yourself the following:
"What do I see?" 1. A Straight line ∴ 180°