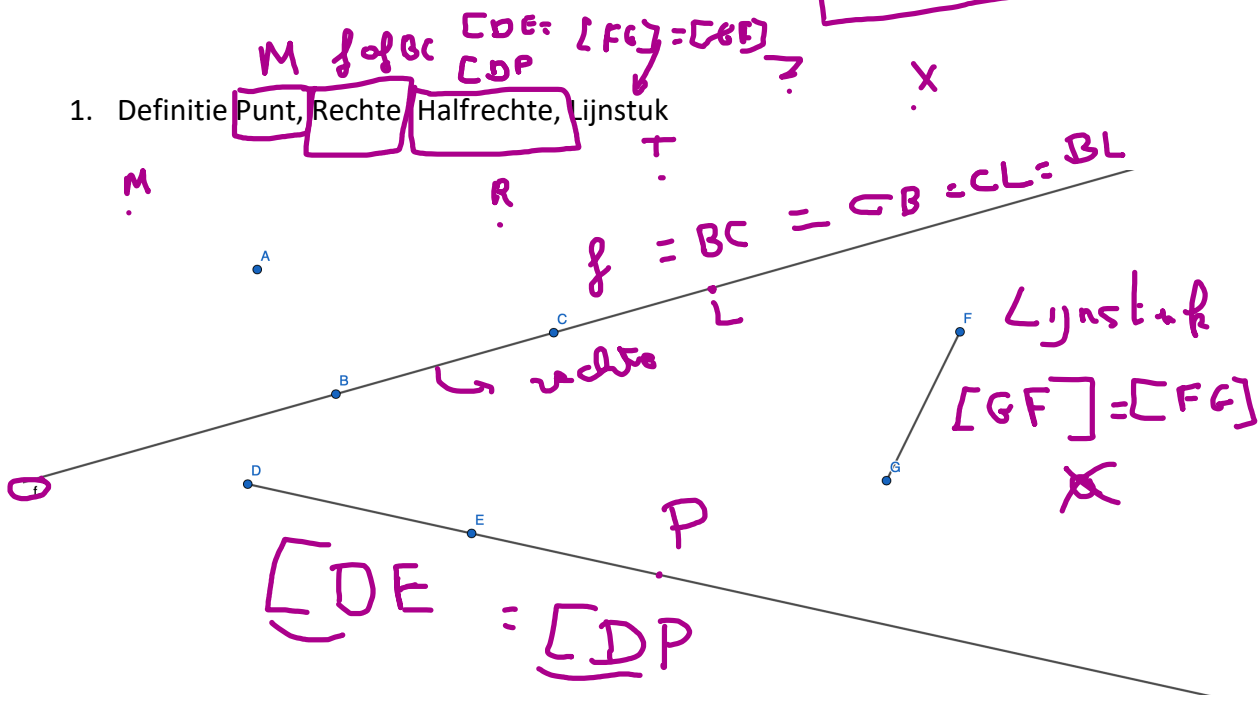
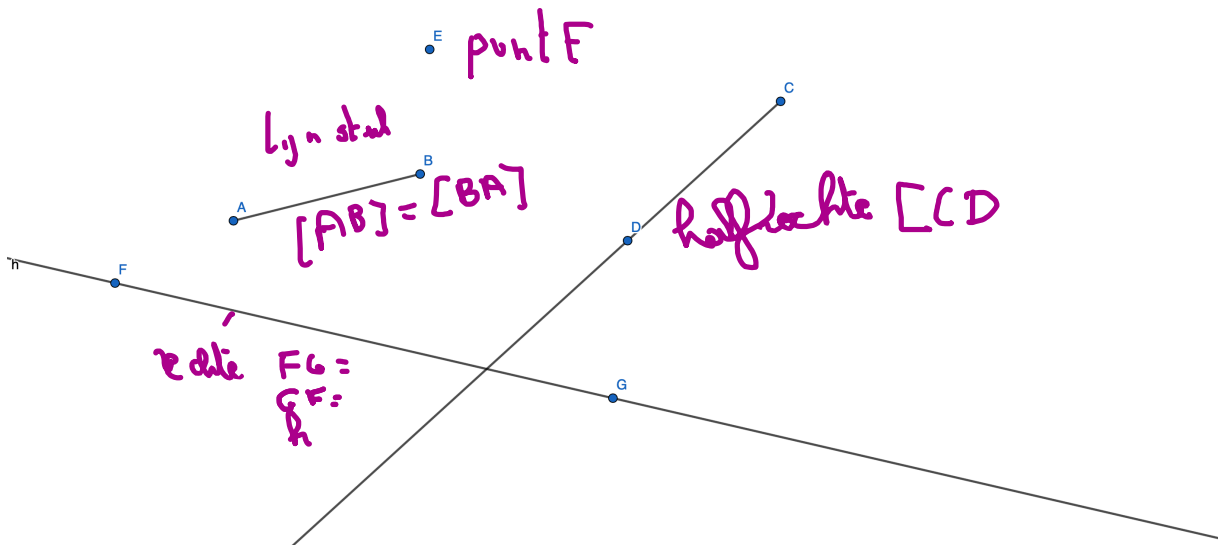
PUNTEN, LIJNEN EN HOEKEN IN MEETKUNDE

1. Definitie Punt, Rechte, Halfrechte, Lijnstuk



Oefening : Geef de juiste naam en de juiste notatie



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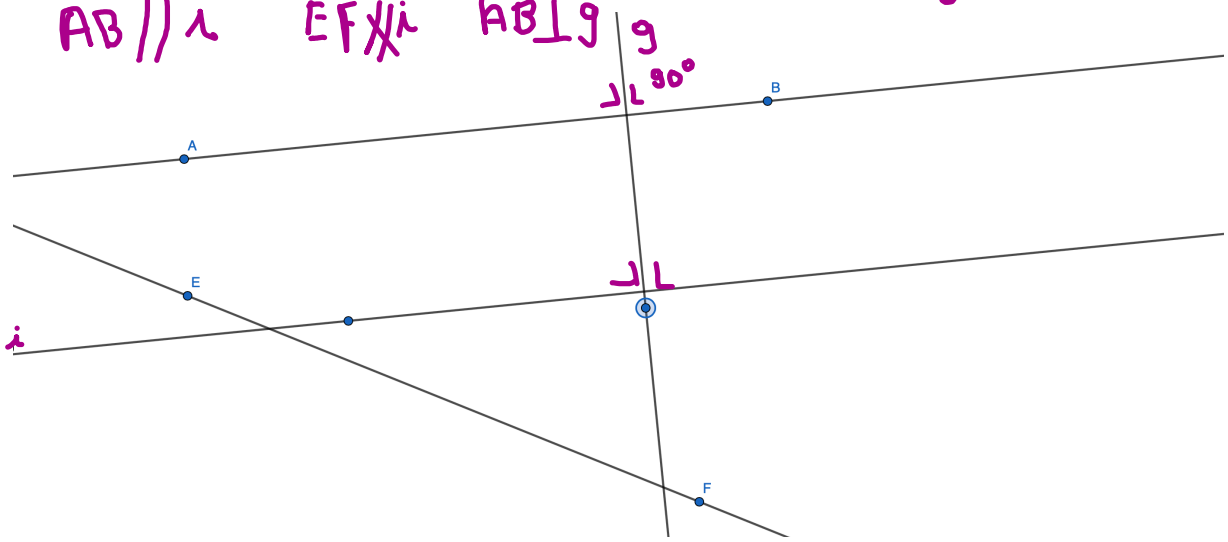
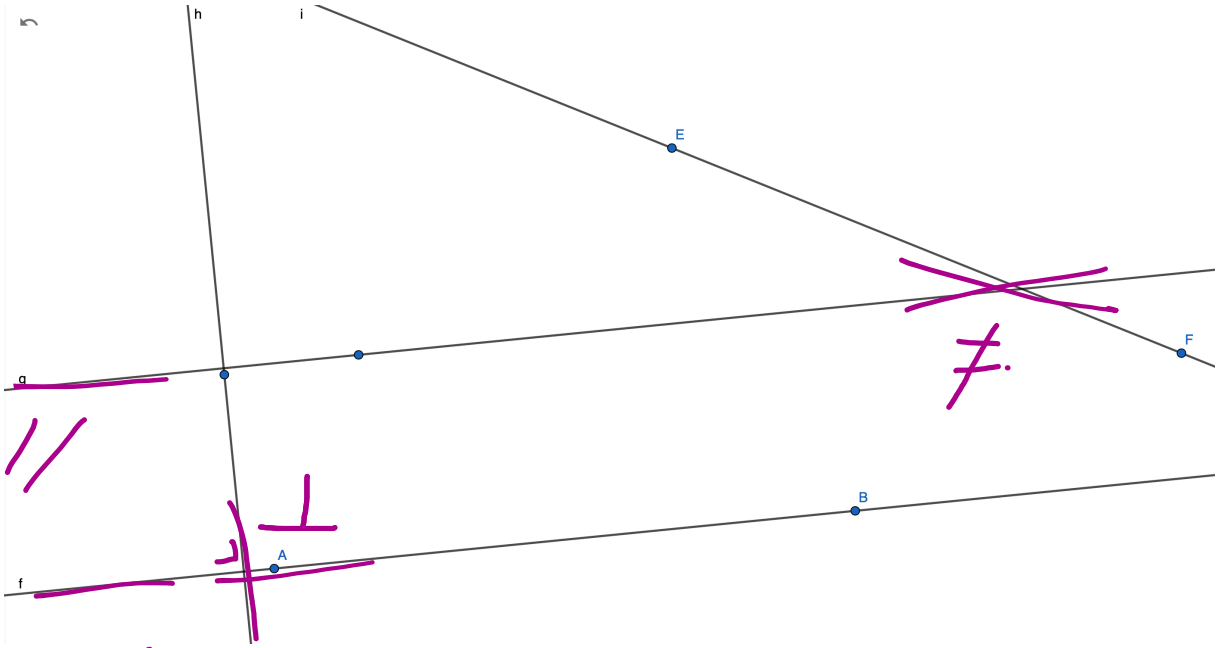
2. Evenwijdige, Snijdende en Loodrechte rechten

AB // i EF ✕ i AB ⊥ g i ⊥ g



Oefening : geef de juiste beschrijving



AB en g //
EF en f ✕
h en f ⊥
AB en i ✕

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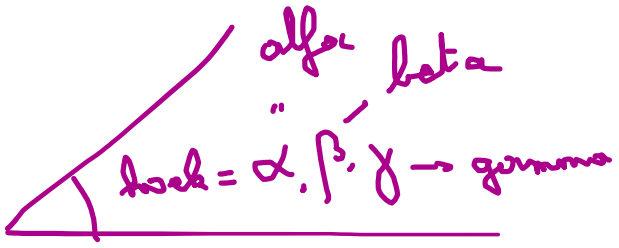
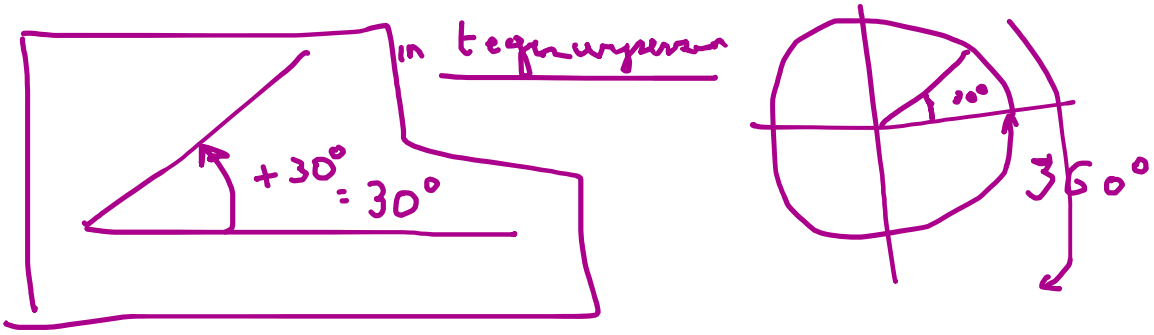
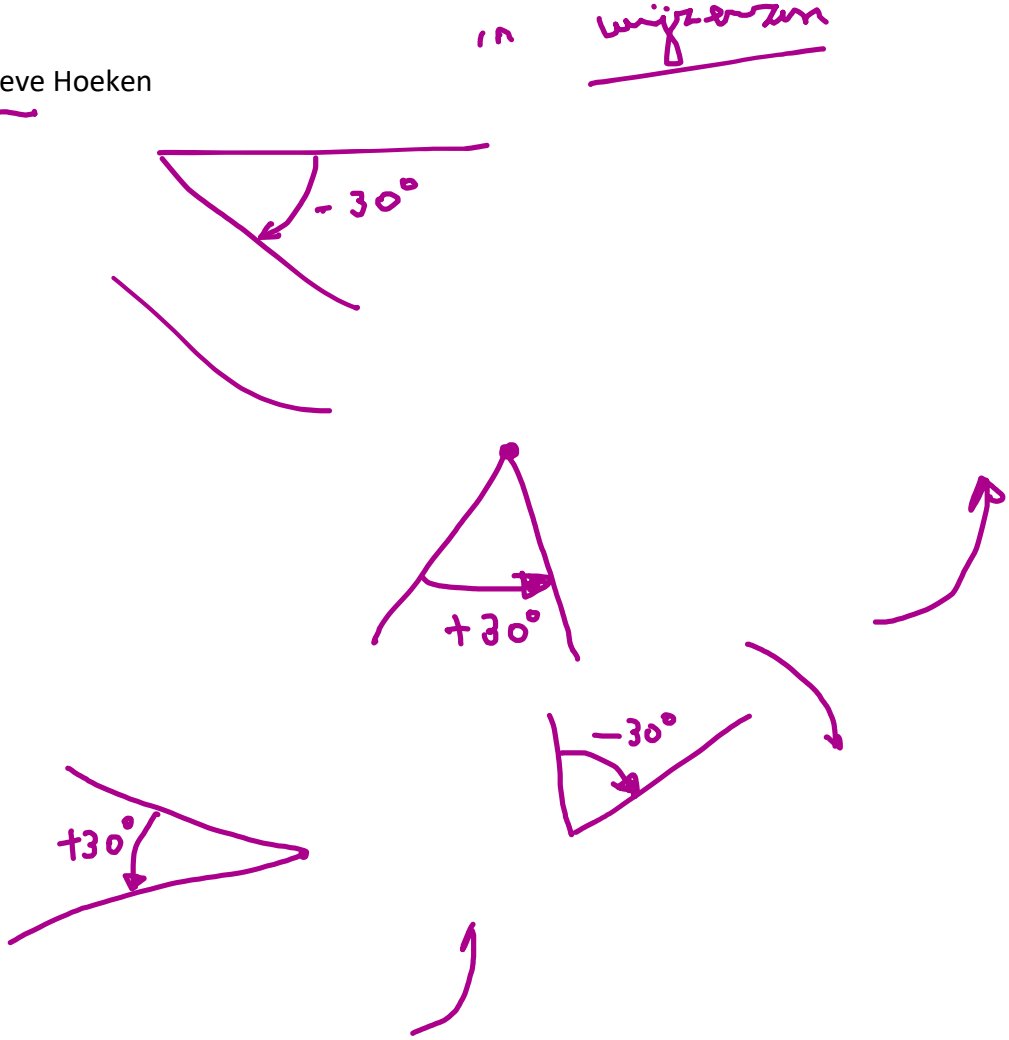
3. Georienteerde hoeken



Positieve Hoeken

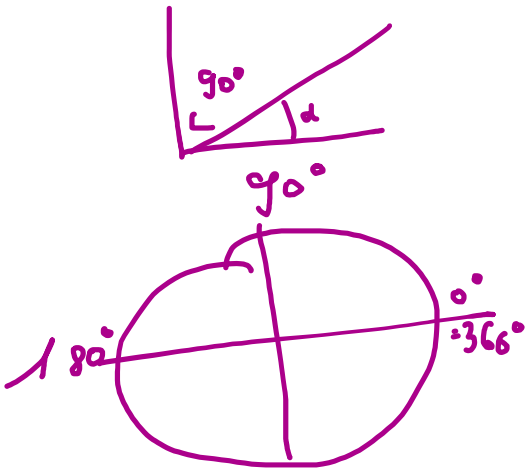


Negatieve Hoeken



4. Soorten hoeken

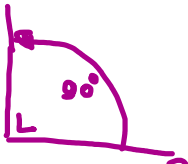
Nulhoek = 0°



Scherpe Hoek

$0 < \alpha < 90°$

Rechte Hoek

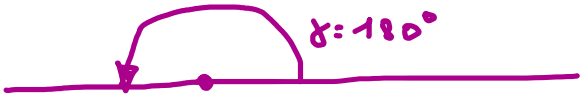


Stompe Hoek

$90° < \beta < 180°$

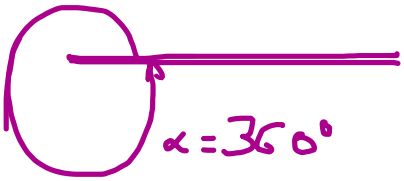
Gestrekte Hoek

$= 180° = \gamma$



Volle Hoek

$= 360° = \alpha$



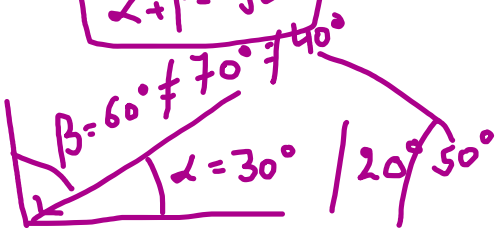
Complementaire Hoek

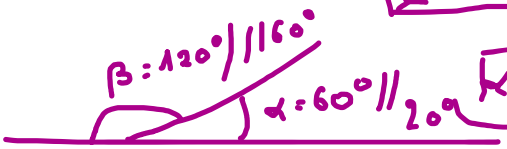
Som = 90°

Supplementaire Hoeken

Som = 180°

$\alpha + \beta = 90°$





$\alpha + \beta = 180°$

Oefening: geef de juiste benaming

complementair	gestrekt	supplementair	stomp
volle hoek	nulpunt	scherp	rechte

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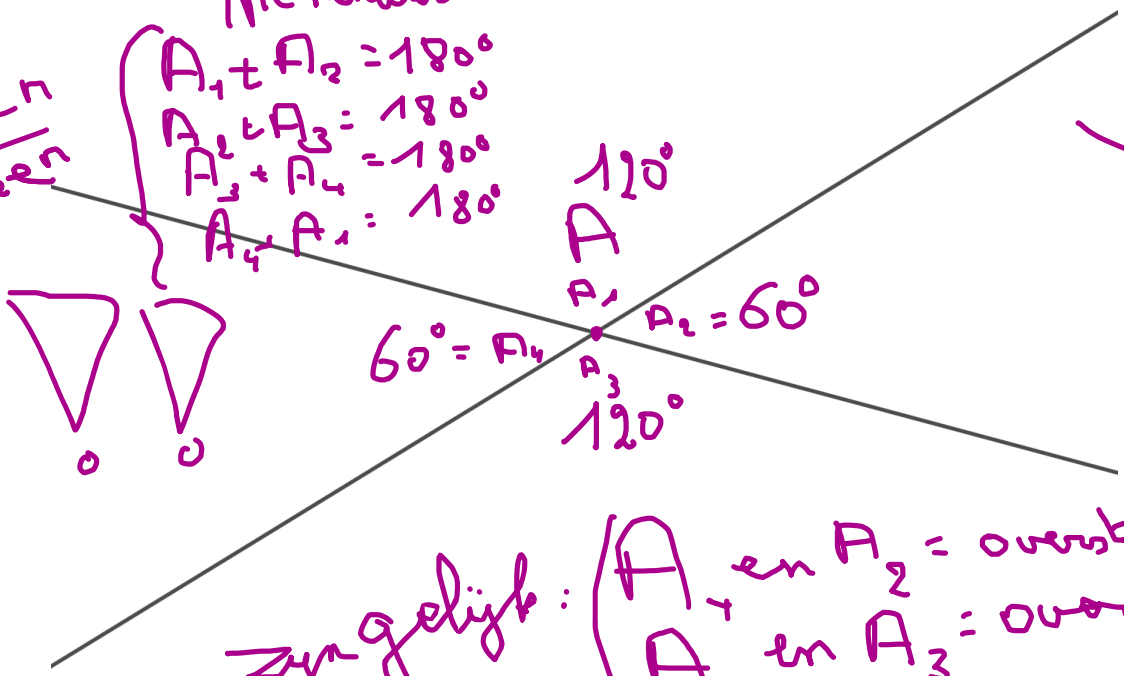
5. Overstaande en Supplementaire Hoeken (nevenhoeken)

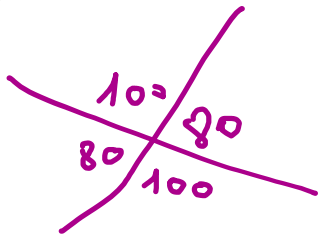
A_1 en A_2 = Supplementair

A_2 / A_1

nevenhoeken

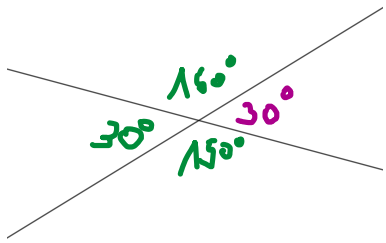
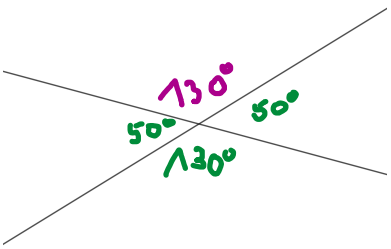
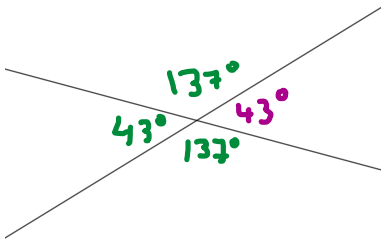
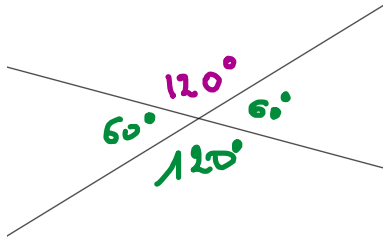
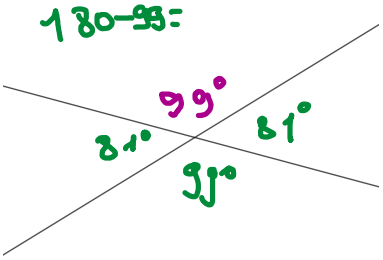
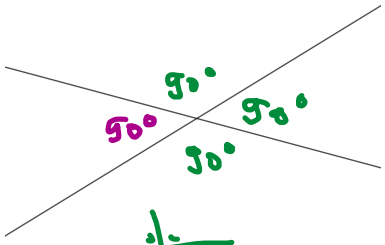
$A_1 + A_2 = 180°$
$A_2 + A_3 = 180°$
$A_3 + A_4 = 180°$
$A_4 + A_1 = 180°$



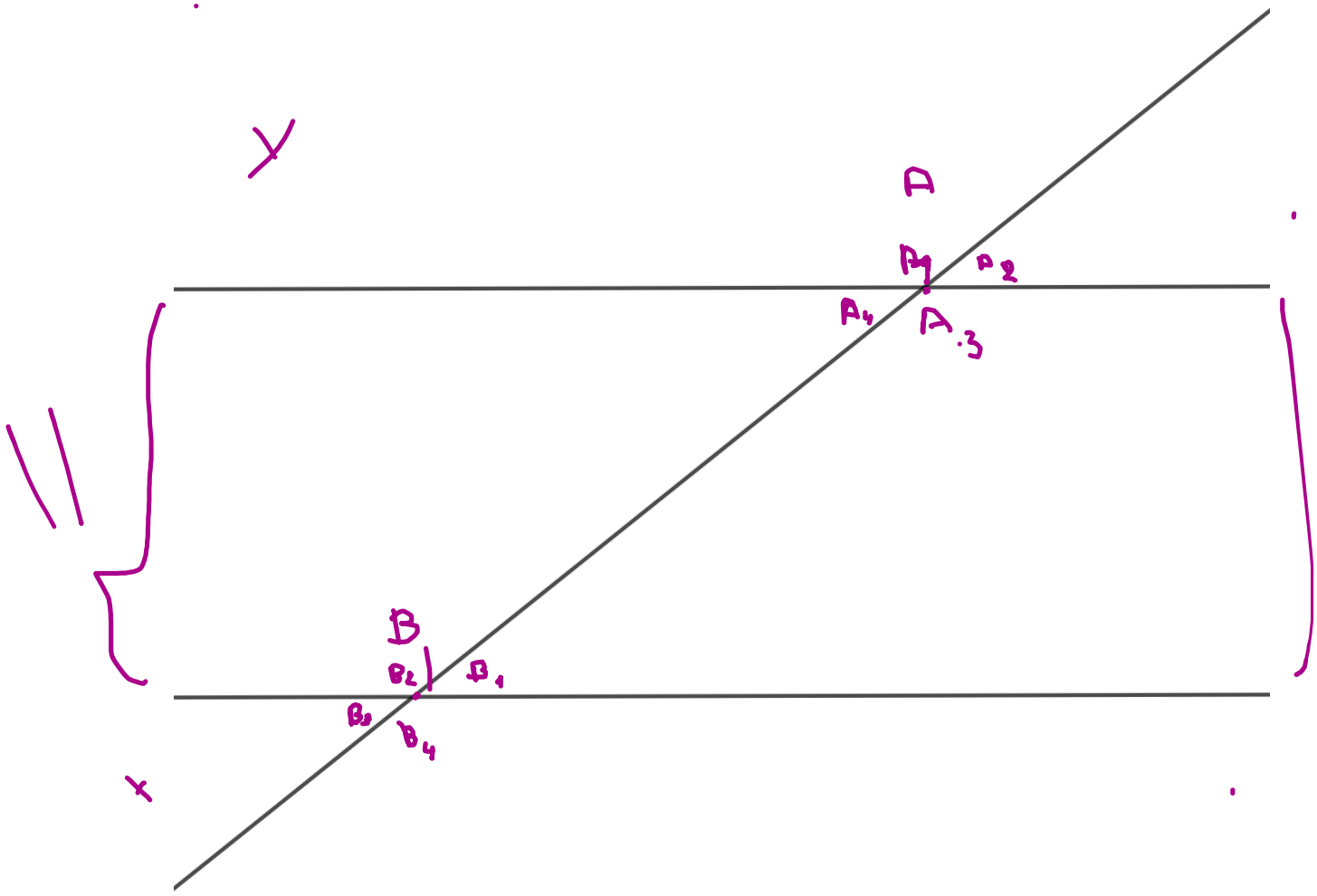


zijn gelijk: (A_1 en A_2 = overstaand
A_1 en A_3 = overstaand)

Oefening

		
	180−99= 	

6. Evenwijdige Rechten en hun snijlijn



X Buitenhoeken A_1, A_2, B_3, B_4

X Binnenhoeken A_4, A_3, B_2, B_1

Verwisselende Buitenhoeken A_4 en B_4, A_2 en B_3

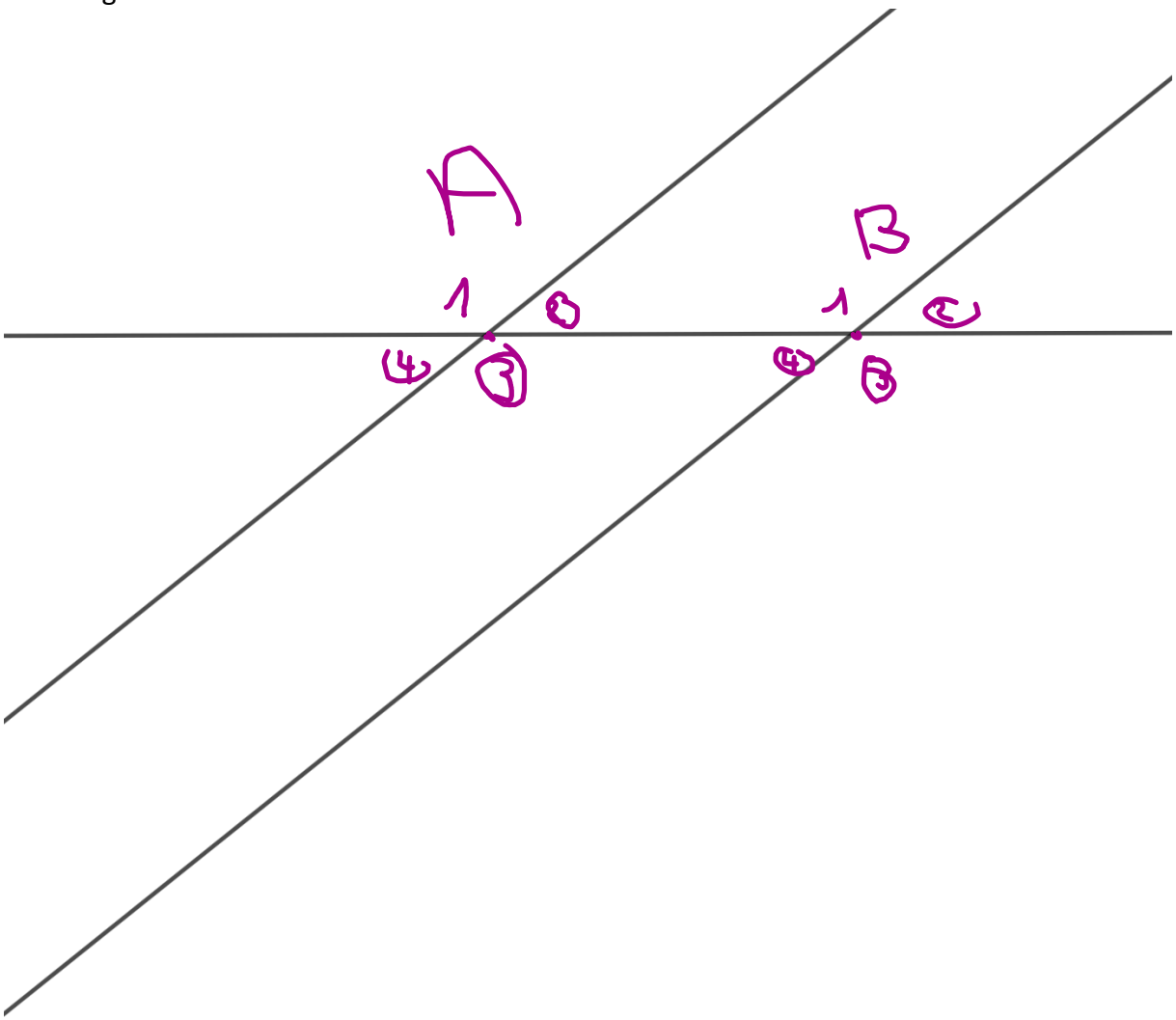
Buitenhoeken aan dezelfde kant van de snijlijn A_1 en B_3, A_2 en B_4

Verwisselende Binnenhoeken B_1 en A_4, B_2 en A_3

Binnenhoeken aan dezelfde kant van de snijlijn B_2 en A_4, B_1 en A_3

Gelijksoortige Hoeken A_1 en B_2, A_2 en B_1, A_3 en B_4, B_3 en A_4

Oefeningen



Geef de juiste beschrijving

A1 en B4 —

B3 en A2 —

A3 en B3 gelijksoortig

A2 en B4 verwisselende binnenhoeken

B1 en A3 " " buitenhoeken

A4 en B2 "