Name:	
Klasse:	Datum:

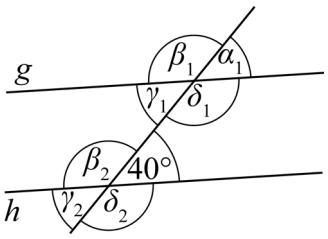
Fundamente
| der Mathematik |

Winkelsätze an Geraden verwenden

Winkelgrößen bestimmen

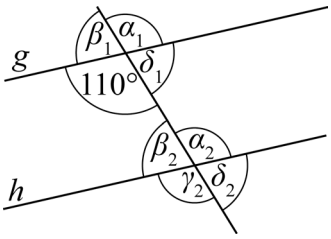
1 Die Geraden g und h sind parallel.
Berechne die Größe aller Winkel.

a)



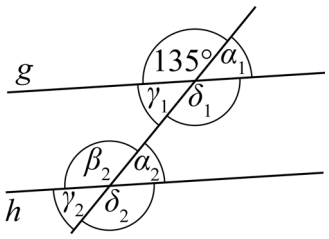
$\alpha_1 =$ _____ $\alpha_2 =$ _____
$\beta_1 =$ _____ $\beta_2 =$ _____
$\gamma_1 =$ _____ $\gamma_2 =$ _____
$\delta_1 =$ _____ $\delta_2 =$ _____

b)



$\alpha_1 =$ _____ $\alpha_2 =$ _____
$\beta_1 =$ _____ $\beta_2 =$ _____
$\gamma_1 =$ _____ $\gamma_2 =$ _____
$\delta_1 =$ _____ $\delta_2 =$ _____

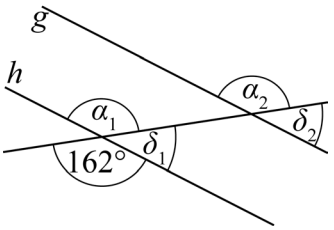
c)



$\alpha_1 =$ _____ $\alpha_2 =$ _____
$\beta_1 =$ _____ $\beta_2 =$ _____
$\gamma_1 =$ _____ $\gamma_2 =$ _____
$\delta_1 =$ _____ $\delta_2 =$ _____

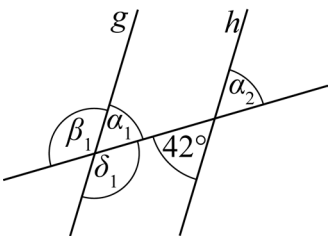
2 Bestimme die Größe der angegebenen Winkel. (Hinweis: g und h sind parallel.)

a)



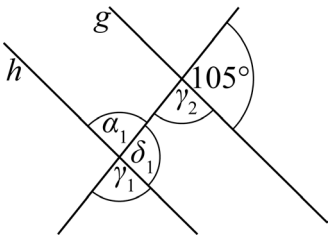
$\alpha_1 =$ _____ $\alpha_2 =$ _____
$\delta_1 =$ _____ $\delta_2 =$ _____

b)



$\alpha_1 =$ _____ $\delta_1 =$ _____
$\beta_1 =$ _____ $\alpha_2 =$ _____

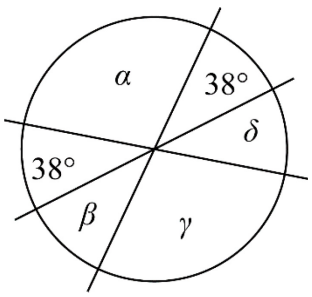
c)



$\alpha_1 =$ _____ $\delta_1 =$ _____
$\gamma_1 =$ _____ $\gamma_2 =$ _____

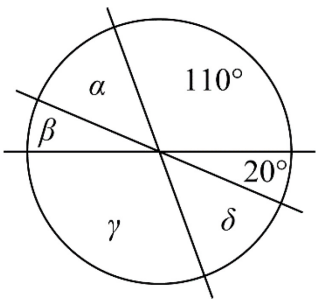
3 Bestimme die fehlenden Winkelgrößen.

a)



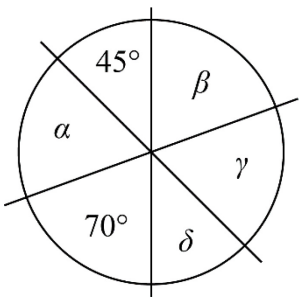
$\alpha =$ _____ $\beta =$ _____
$\gamma =$ _____ $\delta =$ _____

b)



$\alpha =$ _____ $\beta =$ _____
$\gamma =$ _____ $\delta =$ _____

c)



$\alpha =$ _____ $\beta =$ _____
$\gamma =$ _____ $\delta =$ _____