

natuurkunde 1

Examen VWO 2005

Examennummer

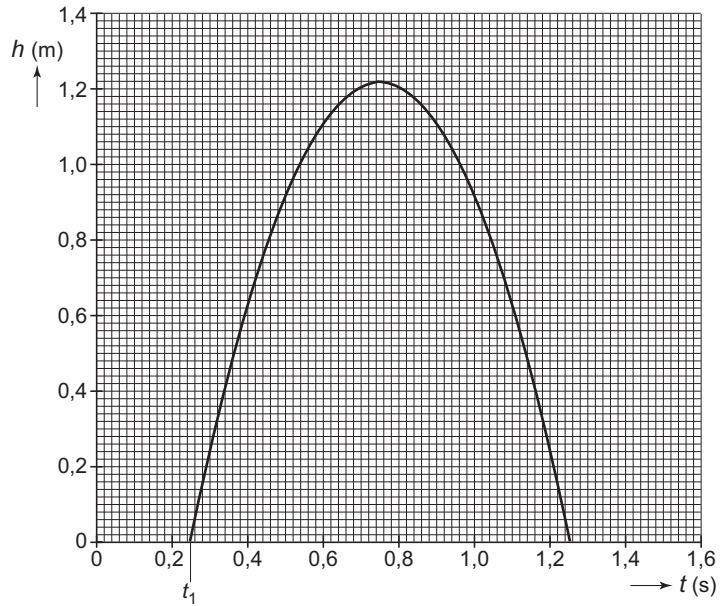
Tijdvak 2  
Woensdag 22 juni  
13.30 – 16.30 uur

.....

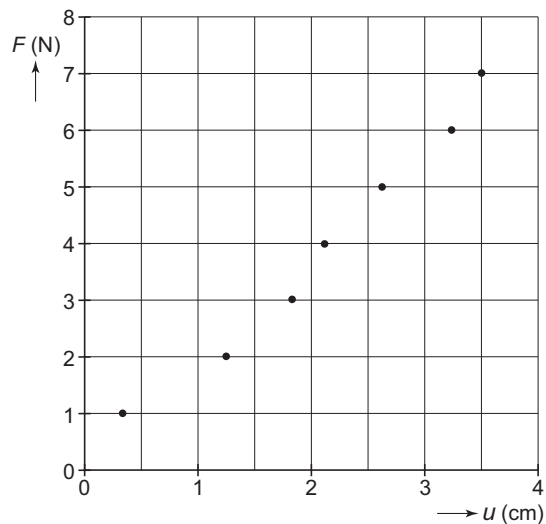
Naam

.....

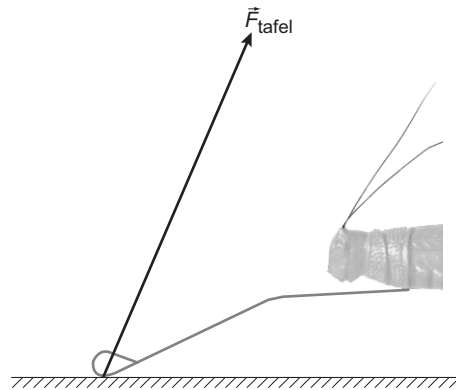
Vragen 2, 3 en 4



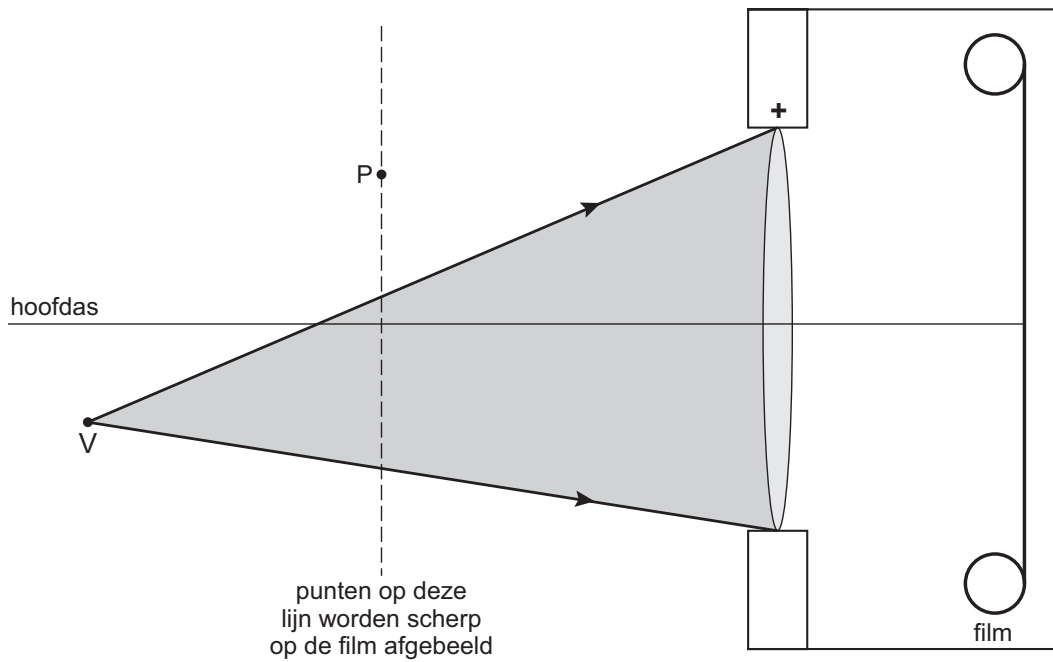
Vraag 4



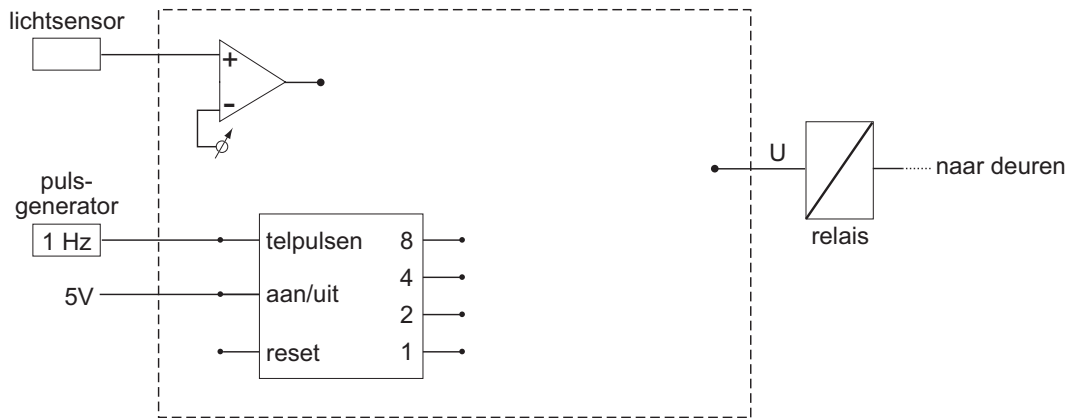
Vraag 5



Vraag 12



Vraag 19



Vraag 22

isotoop	straling	halveringstijd	energie (MeV)
$^{225}_{89}\text{Ac}$			
↓ →	$\alpha$	10,0 d	5,8
$^{221}_{87}\text{Fr}$			
↓ →	$\alpha$	4,8 min	6,3
$^{217}_{85}\text{At}$			
↓ →	$\alpha$	$2 \cdot 10^{-3}$ s	.....
$^{213}_{83}\text{Bi}$			
$(\alpha \leftarrow)^*$ ↓ →	$\beta^-$	46,5 min	.....
.....			
↓ →	.....	.....	.....
.....			
↓ →	.....	.....	.....
.....	(stabiel)		

\* : het  $\alpha$ -verval van Bi-213 wordt buiten beschouwing gelaten.