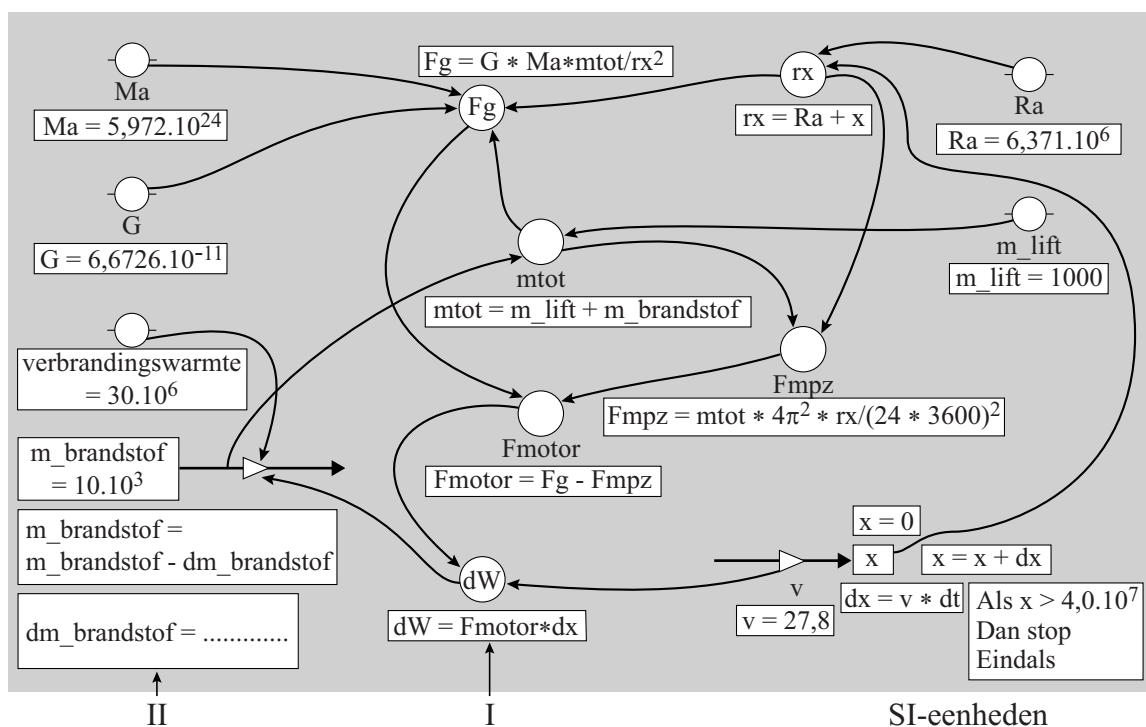


uitwerkbijlage

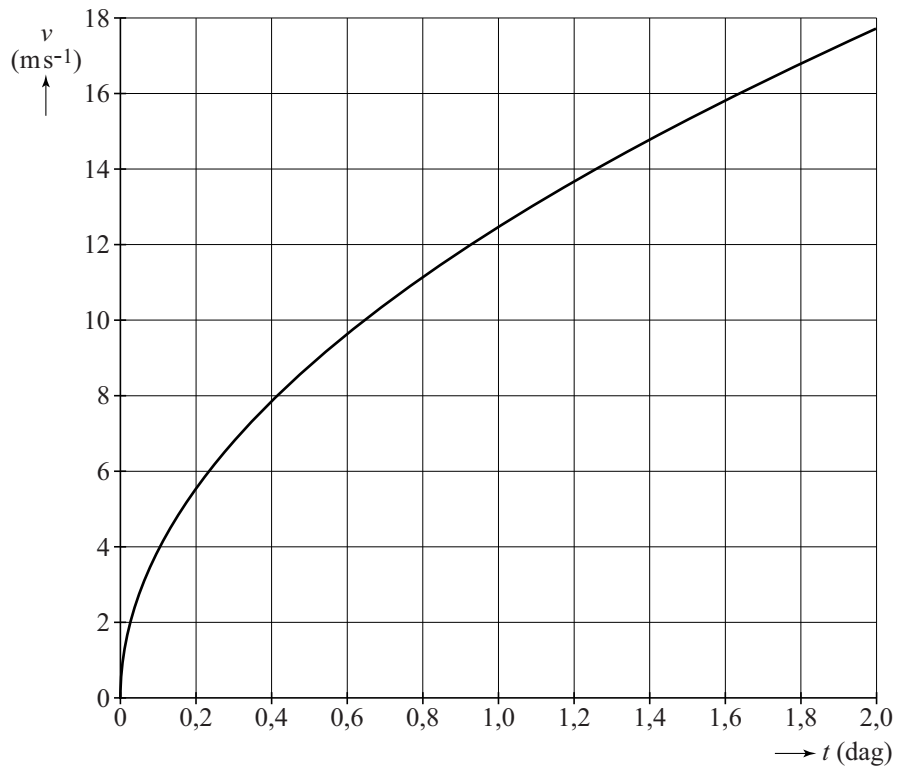
Naam kandidaat \_\_\_\_\_ Kandidaatnummer \_\_\_\_\_

7

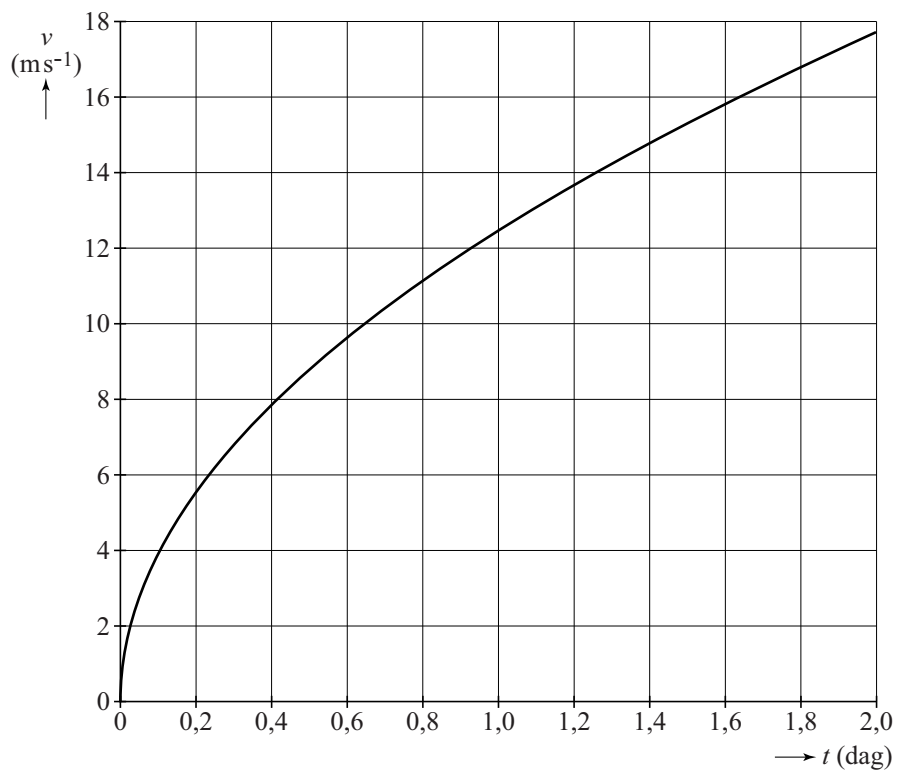
	MODELREGELS	STARTWAARDEN in SI-eenheden
1	$rx = Ra + x$	$t = 0$
2	$mtot = m\_lift + m\_brandstof$	$dt = 10$
3	$Fg = G * Ma * mtot / rx^2$	$Ra = 6,371E6$
4	$Fmpz = mtot * 4\pi^2 * rx / (24*3600)^2$	$Ma = 5,972E24$
5	$Fmotor = Fg - Fmpz$	$G = 6,6726E-11$
6	$dx = v * dt$	$m\_lift = 1000$
7	$x = x + dx$	$m\_brandstof = 10000$
8	$dW = Fmotor * dx$	$verbrandingswarmte = 30E6$
9	$dm\_brandstof =$ .....	$x = 0$
10	$m\_brandstof = m\_brandstof - dm\_brandstof$	$v = 27,8$
11	als $x > 4,0E7$ Dan stop Eindals	
12	$t = t + dt$	

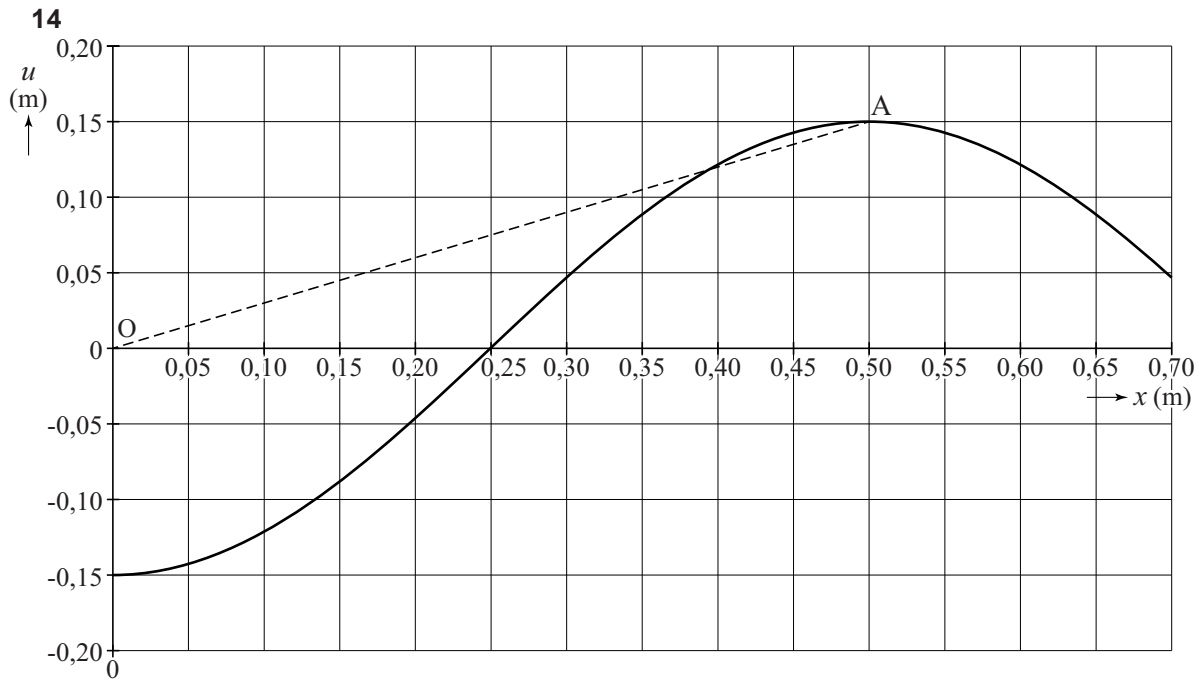


9



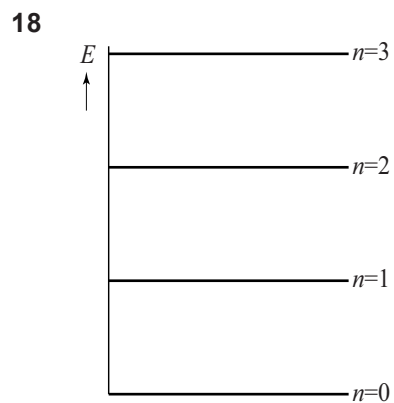
10





**15** Vul onderstaande zin aan.

Als de lengte van de vogel 4 maal zo groot wordt, wordt de slagfrequentie  $f$  ..... maal zo .....



**VERGEET NIET DEZE UITWERKBIJLAGE IN TE LEVEREN**