

Ponderable: Running Rabbit Imagine we have taken position-time data for a running rabbit.								
1	2	3		۵ ا	6	6		
-5	-4	-3 -2	-1 (		2		<i>x</i> (m)	
0	1	2	;	3	4	Б	f (s)	
		A	В	1				
		time (s)	position					
			(m)					
	1	0.0	-5.0					
	2	1.0	-4.0	-				
	3	2.0	-2.3					
	4	3.0	0.0					
	5	4.0	2.0					
	6	5.0	3.0	1				
Start Grapi ucces From	Logg n the ssive the f	jer Pro points ely high fit, dete	on you and the ner poly ermine t	r com en fit a nomia he vel	pute i cur ils ui ocity	r an ve t ntil 1 / an	d typ o the the da d acc	e the data into Logger Pro. data (Analyze >> curve fit). Try ata are well fit, but no higher. eleration as a function of time. Graph

and discuss. Does the rabbit hop? Hint: If you select create calculate column in the Curve Fit box, you will get a new data column with the computed Y-values, and you will have access to the coefficients of the polynomial fit. Use these you to calulate v and a. Upload images to vat461vip@m.facebook.com Phys 21: chap 1, Pg 2



