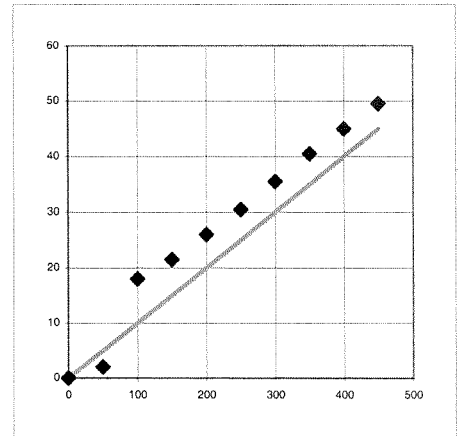


We see that using the model
 $S = 0.1 m$
 our average error is 5.0.

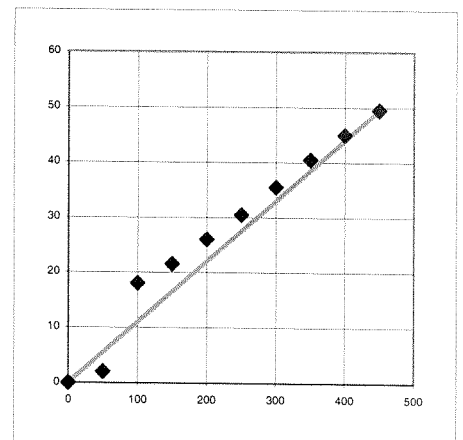
change	mass	length	stretch	change	rate	model	error
	0	20.0	0.0			0	0
50	50	22.0	2.0	2.0	0.04	5	3
50	100	38.0	18.0	16.0	0.32	10	8
50	150	41.5	21.5	3.5	0.07	15	6.5
50	200	46.0	26.0	4.5	0.09	20	6
50	250	50.5	30.5	4.5	0.09	25	5.5
50	300	55.5	35.5	5.0	0.10	30	5.5
50	350	60.5	40.5	5.0	0.10	35	5.5
50	400	65.0	45.0	4.5	0.09	40	5
50	450	69.5	49.5	4.5	0.09	45	4.5



ave error: 5.0

However, by using the model
 $S = 0.11 m$
 we reduce our average error to 2.8.

change	mass	length	stretch	change	rate	model	error
	0	20.0	0.0			0	0
50	50	22.0	2.0	2.0	0.04	5.5	3.5
50	100	38.0	18.0	16.0	0.32	11	7
50	150	41.5	21.5	3.5	0.07	16.5	5
50	200	46.0	26.0	4.5	0.09	22	4
50	250	50.5	30.5	4.5	0.09	27.5	3
50	300	55.5	35.5	5.0	0.10	33	2.5
50	350	60.5	40.5	5.0	0.10	38.5	2
50	400	65.0	45.0	4.5	0.09	44	1
50	450	69.5	49.5	4.5	0.09	49.5	0



ave error: 2.8

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