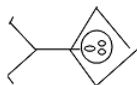
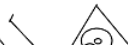


I-85

To practice falling, a 55 kg pole-vaulter falls off of a wall 6.0 m above a 2.0 m thick foam cushion resting on the ground. However, he misses the cushion. The pole-vaulter sinks about 0.10 m into the ground before stopping.

Motion Diagram Free-Body Diagrams

	Event 1:	Event 2:	Event 3:	
	$t_1 =$	$t_2 =$	$t_3 =$	<i>before hitting cushion</i>
	$r_1 =$	$r_2 =$	$r_3 =$	
	$v_1 =$	$v_2 =$	$v_3 =$	<i>after hitting ground</i>
	$a_{12} =$	$a_{23} =$		

Mathematical Analysis

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