


1-87

A 4000 kg rocket's engine produces a thrust of 70,000 N for 15 s. The rocket is fired vertically upward.


Motion Diagram Motion Information

Free-Body Diagrams




Event 1:	Event 2:	Event 3:
$t_1 =$	$t_2 =$	$t_3 =$
$r_1 =$	$r_2 =$	$r_3 =$
$v_1 =$	$v_2 =$	$v_3 =$
$a_{12} =$	$a_{23} =$	

before engine turns off



after engine turns off



Mathematical Analysis

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