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A car traveling at 16 m/s sees a truck 20 m ahead traveling at a constant speed of 12 m/s. After thinking it over for 0.80 s, the car starts to accelerate at 4.0 m/s^2 in an attempt to rear-end the truck. The truck driver has paid-up insurance so doesn't care. The car driver's motive is unknown.

Motion Diagram

Motion Information

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

Mathematical Analysis

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