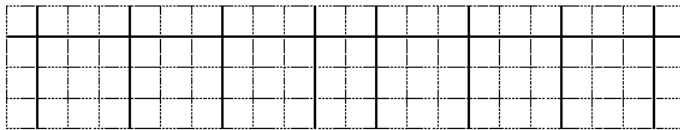


I-45

An automobile, initially traveling at 15 m/s, begins to slow down as it approaches a red light. After traveling 15 m, and slowing to 3.0 m/s, the light turns green and the driver steps on the gas and accelerates for 2.4 seconds until she reaches her original speed.

Motion Diagram



Motion Information

Event 1:

Event 2:

Event 3:

$t_1 =$

$t_2 =$

$t_3 =$

$r_1 =$

$r_2 =$

$r_3 =$

$v_1 =$

$v_2 =$

$v_3 =$

$a_{12} =$

$a_{23} =$

Mathematical Analysis