

## I-42

An elevator is moving downward at 4.0 m/s when someone presses the emergency stop button. The elevator comes to rest after traveling 2.9 m.

### Motion Diagram



### Motion Information

Event 1:

$t_1 =$

$r_1 =$

$v_1 =$

Event 2:

$t_2 =$

$r_2 =$

$v_2 =$

$a_{12} =$

### Mathematical Analysis