$$X_{0} = 0$$
 $X = X_{0} + V_{0} \Delta t + \frac{1}{2} a \Delta t$
 $X = X_{0} + V_{0} \Delta t + \frac{1}{2} a \Delta t$
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Title: #2 (1 of 5)

$$x = x_{0} + v_{0} \Delta t + \frac{1}{2} a \Delta t$$

$$x_{0} = 300_{m} + O + \frac{1}{2} (-1.4\%)(4s) \quad x_{0} = 300_{m}$$

$$x = 300_{m} + O + \frac{1}{2} (-1.4\%)(4s) \quad x = 0$$

$$x = 288.8m$$

$$v_{0} = O$$

$$v = 0$$

$$v = 0$$

$$\Delta t = 4s$$

Title: #2 (2 of 5)

$$x_{o} = 0$$

$$x = x_{o} + v_{o} \Delta t + \frac{1}{2} a \Delta t$$

$$v_{o} = 25\%$$

$$v = 25\%$$

$$v = 25\%$$

$$\Delta t = 0$$

$$\Delta t = 0$$

$$x = x_{o} + v_{o} \Delta t + \frac{1}{2} a \Delta t$$

$$x = x_{o} + v_{o} \Delta t + \frac{1}{2} a \Delta t$$

$$x = x_0 + v_0 \Delta t + \frac{1}{2} a \Delta t$$
 $x = 300_m + 0 + \frac{1}{2} (-1.4) \Delta t^2$

Solve for position and time using the 2 equations above.

1 equation for the car & 1 equation for the truck

$$X_{o} = 300_{m}$$

$$X = V_{o} = 0$$

$$V = 0$$

$$V = a = 1.4\%$$

$$\Delta t = 0$$

TRUCK

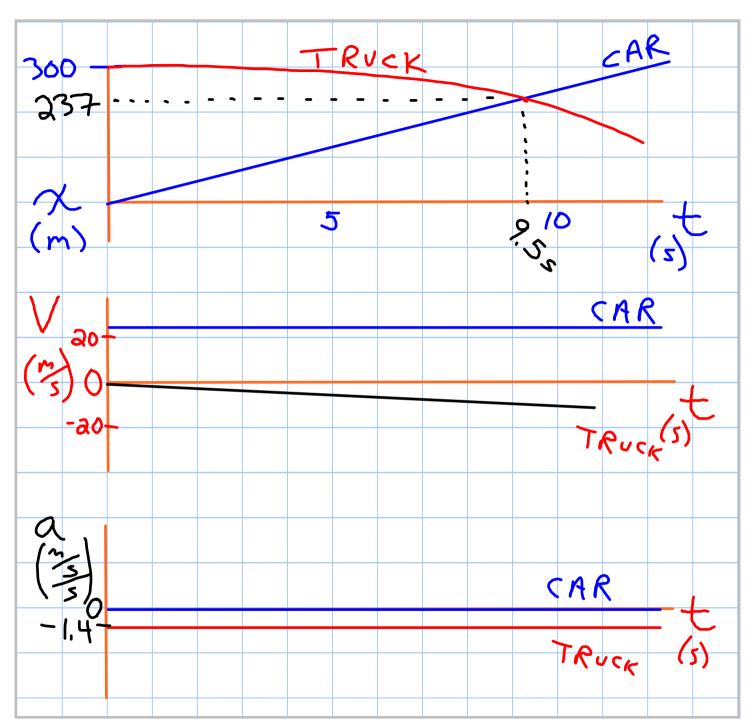
Title: #2 (3 of 5)

$$v = v_0 + a \Delta t$$

$$V = O + (-1.4\%) 9.5s$$

$$V = -13.3\%$$

Title: #2 (4 of 5)



Title: #2 (5 of 5)