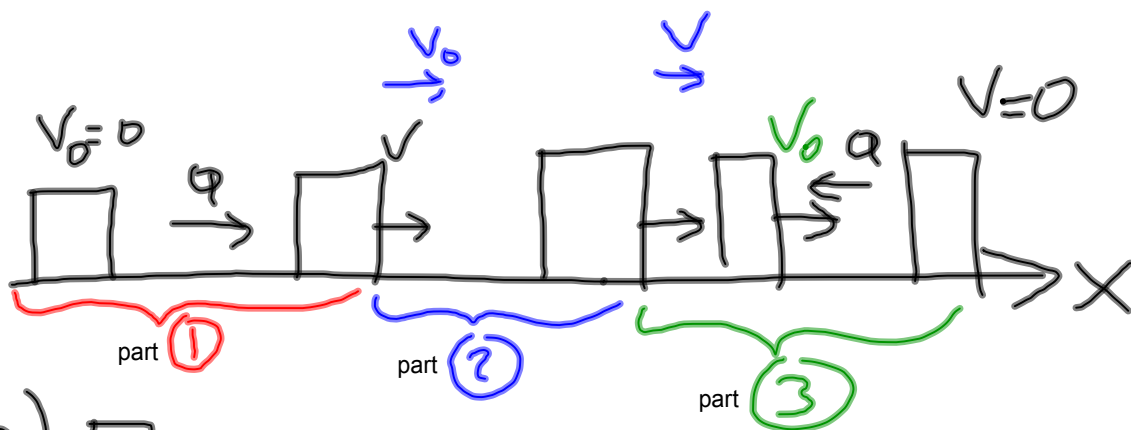


1. A train accelerates from rest at a rate of $4 \frac{m}{s^2}$ for 5 minutes. Then it continues with constant velocity for 10 minutes. Then it slows down to a complete stop while traveling 200 m.

- What was the total displacement of the train?
- What was the average velocity for the entire trip?
- What was the average speed for the entire trip?

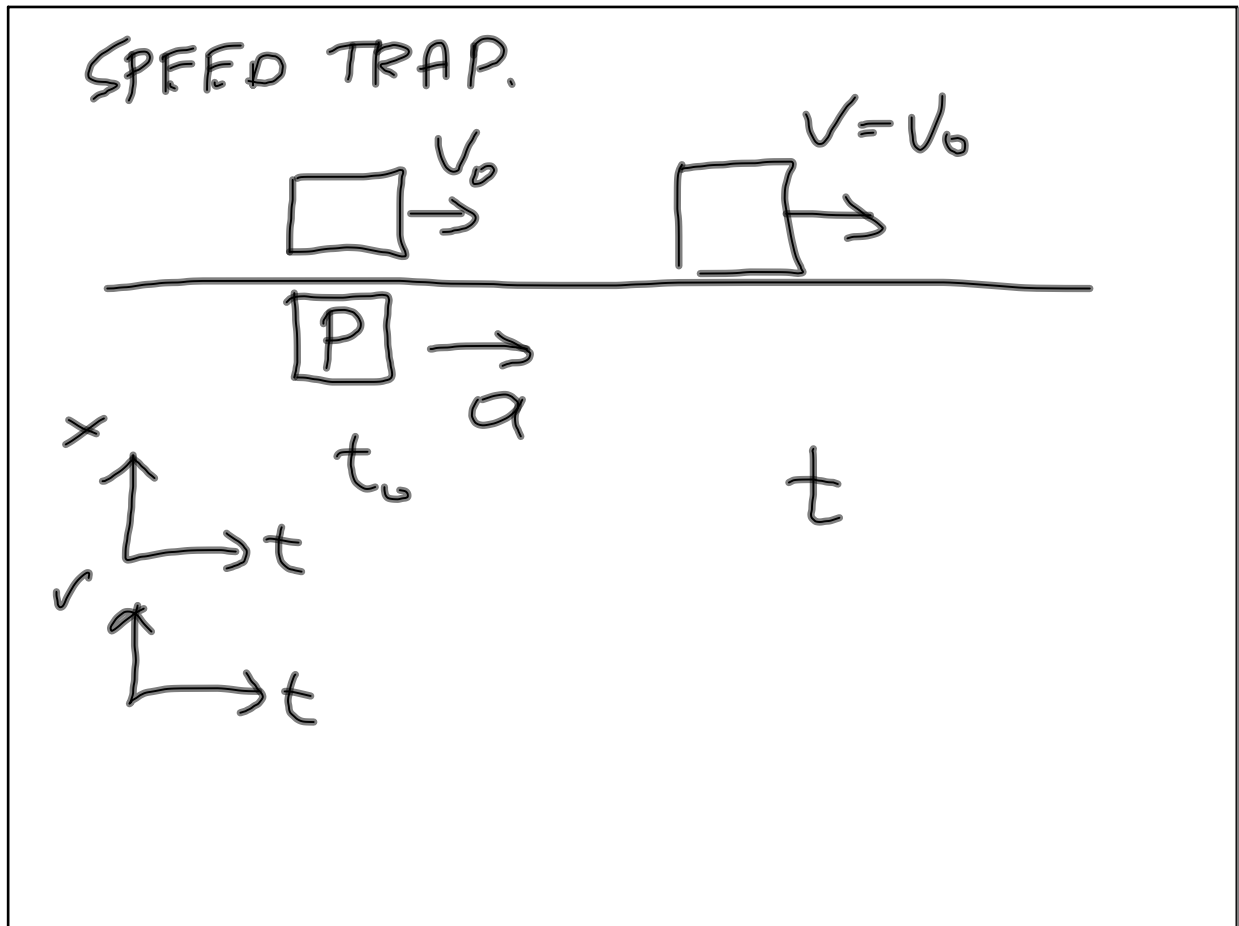
Sep 30-7:54 AM



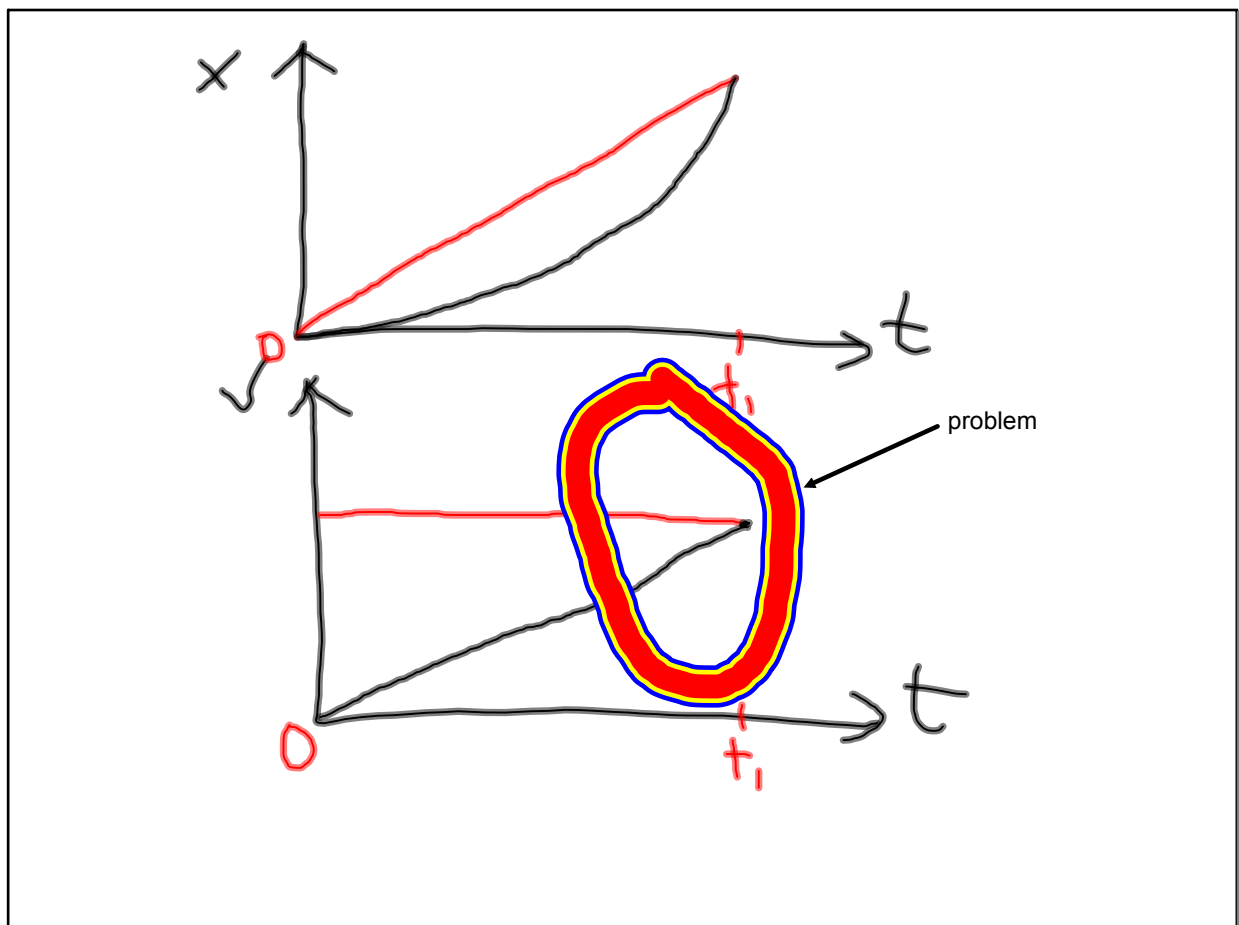
a) 1

$V_0 = 0$
 $V = ?$
 $a = 4 \frac{m}{s^2}$
 $t = 5 \text{ mins.} \left(\frac{60 s}{1 \text{ min}} \right) = 300 s$
 $\Delta x = ?$

Sep 30-7:55 AM



Sep 30-8:17 AM



Sep 30-8:22 AM