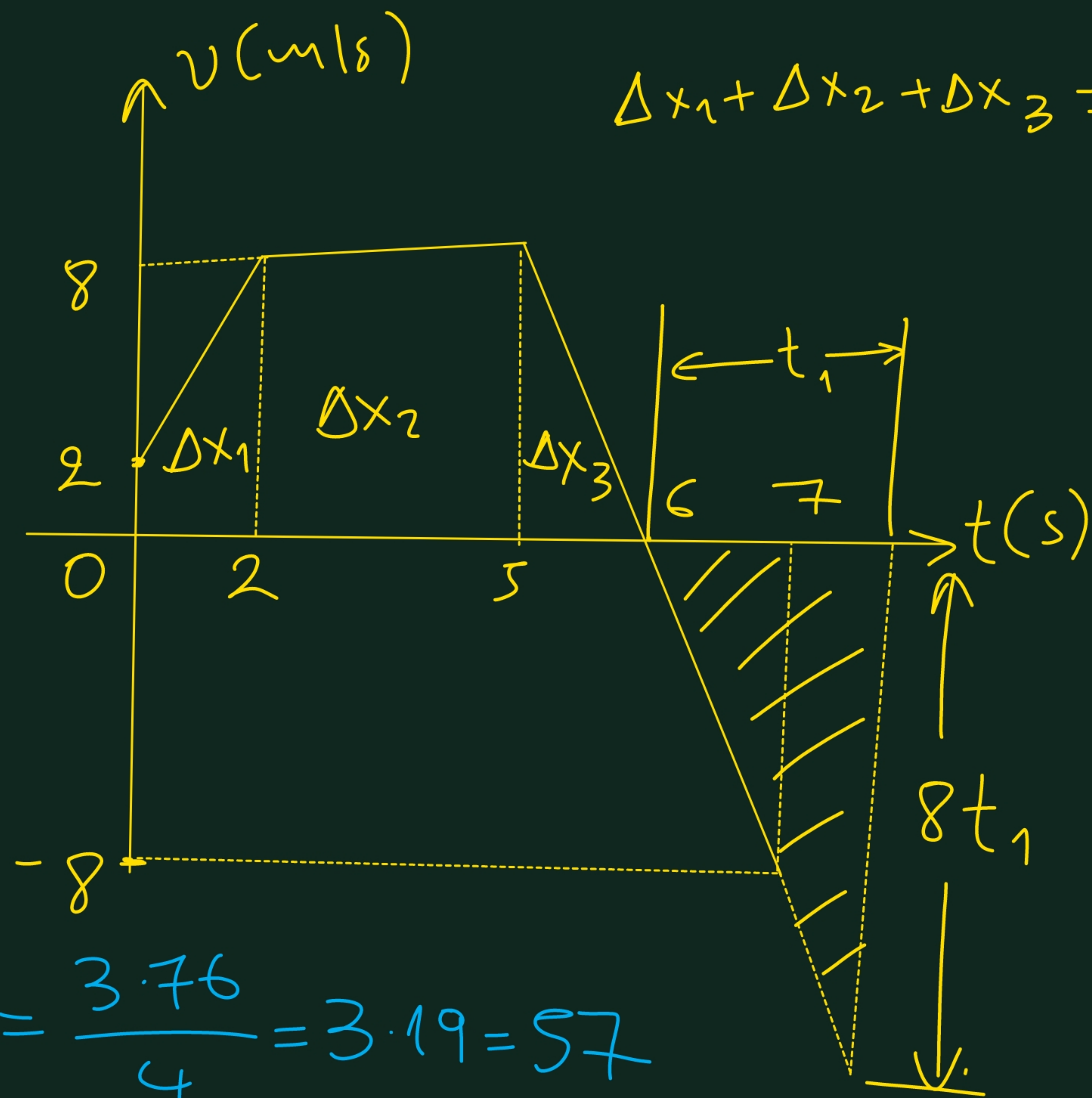




$$t_1^2 = \frac{3 \cdot 76}{4} = 3 \cdot 19 = 57$$

Αρα εμβάθυνση τη στιγμή:

$$t_2 = 12 + \sqrt{57} \text{ sec.}$$

$$\Delta x_1 + \Delta x_2 + \Delta x_3 = \frac{(2+8) \cdot 2}{2} + 3 \cdot 8 + \frac{1 \cdot 8}{2} = 10 + 24 + 4 = 38 \text{ m}$$

$$\Delta x_1 = \frac{4+8}{2} \cdot 4 = 24 \text{ m}$$

$$\Delta x_2 = 5 \cdot 8 = 40 \text{ m}$$

$$\Delta x_3 = \frac{3 \cdot 8}{2} = 12 \text{ m}$$

$$\Delta x_1 + \Delta x_2 + \Delta x_3 = 76 \text{ m}$$

$$a = \frac{-8}{3} \text{ m/s}^2$$

Αρα: $\frac{t_1 \cdot 8t_1}{2} = 38 \Rightarrow$

$$4t_1^2 = 38 \Rightarrow t_1 = \frac{\sqrt{38}}{2}$$

Αρα εμβάθυνση τη στιγμή: Αρα: $\frac{t_1 \cdot \frac{8}{3}t_1}{2} = 76 \Rightarrow$

$$t_2 = 6 + \frac{\sqrt{38}}{2}$$

$$\frac{8t_1^2}{6} = 76 \Rightarrow t_1^2 = \frac{6 \cdot 76}{8}$$