

02-11-1

[m]

$$120 \text{ km} = 120000 \text{ m} \quad 1,2 \text{ h} = 4320 \text{ s}$$

$$X_F = X_0 + Vt; \quad 120000 = V \cdot 4320$$

$$V = \frac{120000}{4320} = 27,778 \text{ m/s}$$

$$[14] \quad 35 \text{ km} = 35000 \text{ m} \quad X_F = X_0 + Vt$$

$$30 \text{ min} = 1800 \text{ s}$$

$$35000 = 1800 \cdot V$$

$$V = 19,444 \text{ m/s}$$

$$50 \text{ km} = 50000 \text{ m} \quad X_F = X_0 + Vt$$

$$40 \text{ min} = 2400 \text{ s}$$

$$50000 = 0 + V \cdot 2400$$

$$V = 20,833 \text{ m/s}$$

[r]

$$25 \frac{\text{m}}{\text{s}}$$

$$X_F = X_0 + Vt$$

$$100 \text{ km} = 100000 \text{ m}$$

$$10000 = 25 \cdot t$$

$$t = 4000 \text{ s}$$

$$120 \frac{\text{km}}{\text{h}} = 33,333 \frac{\text{m}}{\text{s}}$$

$$150000 = 33,33 \cdot t$$

$$150 \text{ km} = 150000 \text{ m}$$

$$t = 4500,045 \text{ s}$$

$$[r] \quad 3,33 \text{ m/s}$$

$$6 \text{ km} = 6000 \text{ m}$$

$$X_F = X_0 + Vt \rightarrow 6000 = 3,33 t \quad t = 1801,802 \text{ s}$$

$$[r] \quad 42 \text{ km} = 42000 \text{ m} \quad 12 \frac{\text{km}}{\text{h}} = 3,333 \text{ m/s}$$

$$X_F = X_0 + Vt \rightarrow 42000 = 0 + 3,333 t$$

$$t = 12601,26 \text{ s}$$

[re]

$$6 \frac{\text{km}}{\text{h}}$$

$$1,667 \text{ m/s}$$

$$25 \text{ min} = 1500 \text{ s}$$

$$X_F = X_0 + Vt; \quad X_F = 0 + 1,667 \cdot 1500 = 2500,5 \text{ m}$$

[rl]

$$0,02 \frac{\text{m}}{\text{s}}$$

$$1 \text{ min} = 60 \text{ s}$$

$$X_F = X_0 + Vt \rightarrow X_F = 0 + 0,02 \cdot 60 = 1,2 \text{ m}$$

[ra]

$$85 \frac{\text{km}}{\text{h}}$$

$$23,611 \frac{\text{m}}{\text{s}}$$

$$250 \text{ km} = 250000 \text{ m}$$

$$X_F = X_0 + Vt \rightarrow 250000 = 0 + 23,611 \cdot t$$

$$t = 10588,285 \text{ s}$$

[g]

$$100 \text{ m}$$

$$15 \text{ s}$$

$$X_F = X_0 + Vt; \quad 100 = 0 + V \cdot 15$$

$$V = 6,667 \frac{\text{m}}{\text{s}}$$

[ro]

$$V = 340 \text{ m/s}$$

$$500 \text{ m}$$

$$X_F = X_0 + Vt \rightarrow 500 = 340 \cdot t$$

$$t = 1,47 \text{ s}$$