

CHAPTER 1

Kinematics of Particles

Solutions to Tutorial Questions

Q1.1. $a=0.3 \text{ m/s}^2$, $u=0$, $v=22 \text{ m/s}$

The distance s in the acceleration phase is:

$$v^2 = u^2 + 2as \Rightarrow (22)^2 = 0 + 2 \times 0.3 \times s \Rightarrow s = 806.67 \text{ m} = 0.807 \text{ km}$$

The time in the acceleration phase is:

$$v = u + at \Rightarrow 22 = 0 + 0.3 \times t \Rightarrow t = 73.33 \text{ s} = 1 \text{ min } 13.33 \text{ s}$$

b) $t = 1 \text{ min}$, $v=0$, $u = 22.347 \text{ m/s}$

The acceleration a is:

$$v = u + at \Rightarrow 0 = 22 + a \times 60 \Rightarrow a = -0.367 \text{ m/s}^2$$

To calculate the distance s in the deceleration phase:

$$v^2 = u^2 + 2as \Rightarrow 0 = (22)^2 + 2 \times (-0.367) \times s \Rightarrow s = 660 = 0.66 \text{ km}$$

c) Distance during the constant velocity = $11 - 0.807 - 0.66 = 9.533 \text{ km}$

Time during the constant velocity is:

$$t = \frac{s}{v} = \frac{9.533 \times 1000}{22} = 433.318 \text{ s} = 7 \text{ min } 13.318 \text{ s}$$

Total time of the journey: $1 \text{ min } 13.33 \text{ s} + 7 \text{ min } 13.318 \text{ s} + 1 \text{ min} = 9 \text{ min } 27 \text{ s}$

Q1.2.a) $u=0$, $a=4 \text{ m/s}^2$:

$$v^2 = u^2 + 2as \Rightarrow v^2 = 0 + 2 \times 4 \times 200 \Rightarrow v = 40 \text{ m/s}$$

b) $v = u + at \Rightarrow 40 = 0 + 4 \times t \Rightarrow t = 10 \text{ s}$

Q1.3. a) For the acceleration phase:

Acceleration phase, $u=0$, $v=v_1=80 \text{ m/s}$, $a=a_1=4 \text{ m/s}^2$:



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Lingsheng Yao



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