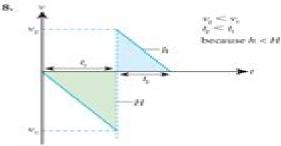


$$y = 25.5 \text{ m/s}^{-1}$$



- 9. (a) 7.5 a
  - (b) 56.25 m.
  - (c) For the car, x = 900 m For the bus,  $x_a = 750 \text{ m}$
  - (d) x is longer than x<sub>i</sub>, therefore the car is in front of the bus
- (a) Before the launch, the rocket carries a spacecraft at rest at the launch pad with zero momentum. During the launch, a large amount of fast moving hot gases is released through the exhaust. This creates/cause high downward momentum. According to the principle of conservation of momentum, an equally high but opposite momentum is produced. Hence, an upthrust gives an acceleration to the rocket.
  - (b) Acceleration of the rocket can be increased by reducing the mass of the rocket.

#### Chapter 3 Gravitation

#### Performance Evaluation

- 1. (a) (i) F = GM

  - (b)  $M = \frac{4\pi^2r^3}{GT^3}$
  - (c)  $1.99 \times 10^{10} \text{ kg}$
- - (b)  $v = \int GM$



- (c) A free falling satellite orbits around Earth with a centripetal acceleration that equals to the gravitational acceleration. The gravitational acceleration does not depend on the mass of the object...
- 3. Kepler's Second Law states that a line that connects a planet to the Sun sweeps out equal areas in equal times. The shorter the distance of the plant from the Sun, the faster the velocity of the planet. From A to B, the speed of planet Uranus increases to a maximum value and then decreases.
- 4. (a) Satellite and the Moon as a pair
  - (b) 7.71 × 10° N
- 5. (a) Mass of the Earth
  - Distance from the centre of the Earth
  - (b) 0.23 m s 2
- 6. (a)  $\frac{T_1^2}{T_2^2} = \frac{r_1^2}{r_2^2}$ 
  - (b) 4.49 × 10<sup>to</sup> m
- 7. 29.44 Vetara
- 8, 9 996 m s 9. (a) 3.54 × 10° m s 1
  - (b) Small particles are unlikely to escape because of the very high escape velocity.
- 10. (i)  $F_{\mu\nu} = 2P$ 
  - (iii)  $F_{ac} = 0.5P$

#### Chapter 4 Higat

#### Performance Evaluation

- 1. (a) Heat is absorbed or released during changes in phase without any change in temperature.
  - (b) When steam is condensed into water, latent heat is released to heat up the water.
  - (c) Rapid heating.
    - Direct heating of water, that is without wasting heat to heat up the container.
- 2. (4) 1
- (a) Block A.
  - (b) Block B. Block with a low specific heat capacity experiences higher increase in temperature.
- 4. (a) Specific latent heat is the quantity of heat absorbed or released by 1 kg of substance during a change in its phase without any change fin its temperature.
  - (b)  $2.27 \times 10^{\circ}$  L
- (a) Specific latent heat of vaporisation, l, of a substance is the quantity of heat absorbed by 1 kg of the substance when boiling or the quantity of heat released by 1 kg of the substance when condensing without any change in its temperature.

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