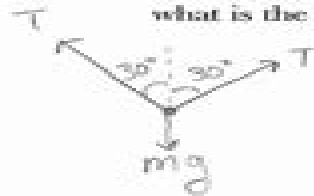


6. Tarzan has a mass of 75 kg and swings from vine to vine. As Tarzan grabs a new vine, both vines make an angle of 30° with the vertical. In such a condition of static equilibrium, what is the net force on the vine?



$$\Sigma F = ma = 0 \text{ N}$$

7. A car with a weight of 3000 N is accelerated across a level surface at 8.5 m/s^2 . What is the net force acting on the car?

$$\Sigma F = ma = \left(\frac{3000}{9.8}\right)(8.5) = \underline{2600 \text{ N}}$$

Chapter 5-6: Momentum & Energy

8. A 150g baseball reaches a batter with a speed of 25 m/s. After it has been struck, it leaves the bat at 35 m/s in the opposite direction. If the ball was in contact with the bat for .001 s, find the average force exerted on it during this period.

$$F = \frac{\Delta p}{\Delta t} = \frac{m(V_f - V_i)}{\Delta t} = \frac{(0.150 \text{ kg})(35 \text{ m/s} - (-25 \text{ m/s}))}{0.001} = \underline{9,000 \text{ N}}$$

9. A 30 kg girl who is running at 3 m/s jumps on a stationary 10 kg sled on a frozen lake. How fast does the sled then move?

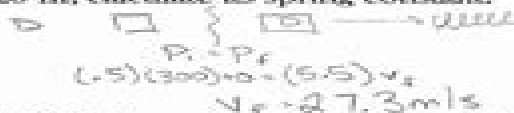


$$m_g V_{g_i} + m_s V_{s_i} = (m_g + m_s) V_f$$

$$(30)(3) + 0 = (40) V_f$$

$$V_f = \underline{2.25 \text{ m/s} \approx 2 \text{ m/s}}$$

10. A 0.500kg bullet traveling at 300 m/s hits a 5 kg block of wood and becomes imbedded in the block. The block then slides without friction into a spring. If the spring is compressed .25 m, calculate its spring constant.



$$P_i = P_f$$

$$(0.5)(300) + 0 = (5.5) V_f$$

$$V_f = \underline{27.3 \text{ m/s}}$$

$$KE = PE_s$$

$$\frac{1}{2} m v^2 = \frac{1}{2} k x^2$$

$$\frac{1}{2} (5.5) (27.3)^2 = \frac{1}{2} k (.25)^2$$

$$k = \underline{65455 \approx 70,000 \text{ N/m}}$$

11. A 0.5 kg stone moving north at 4 m/s collides with a 4 kg lump of clay moving west at 1 m/s. The stone becomes embedded in the clay. What is the velocity of the composite body after the collision?



$$x\text{-dir}$$

$$(4)(1) = (4.5) V_x$$

$$V_x = \underline{.889 \text{ m/s}}$$

$$y\text{-dir}$$

$$(0.5)(4) = (4.5) V_y$$

$$V_y = \underline{.444 \text{ m/s}}$$



$$V^2 = .444^2 + .889^2$$

$$V = \underline{0.99 \text{ m/s} \approx 1 \text{ m/s}}$$

12. How much work is done on a 50 N rock that you lift 10 m?

$$W = F \times d = 50(10) = \underline{500 \text{ J}}$$

13. A diver who weighs 500 N steps off a diving board that is 10 m above the water. The diver hits the water with kinetic energy equal to

$$PE_g = KE$$

$$mg \cdot h = KE$$

$$500(10) = KE = \underline{5,000}$$

Answers Key Energy Machines Problems

LP Steffe



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