

University Physics with Modern Physics

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Chapter 5: Kinetic Energy, Work, and Power

Concept Checks

5.1. c 5.2. b 5.3. d 5.4. a) True b) False c) True

Multiple-Choice Questions

5.1. c 5.2. d 5.3. a 5.4. d 5.5. c 5.6. c 5.7. c 5.8. b 5.9. b 5.10. c 5.11. c 5.12. d 5.13. b 5.14. a

Conceptual Questions

- 5.15. If the net work done on a particle is zero, then the net force on the particle must also be zero. If the net force is zero, then the acceleration is also zero. Hence, the particle's speed is constant.
- 5.16. If Paul and Kathleen both start from rest at a height h , then, by conservation of energy, they will have the same speed when they reach the bottom. That is, their initial energy is pure potential energy mgh and their final energy is pure kinetic energy $(1/2)mv^2$. Since energy is conserved (if we neglect friction!) then $mgh = (1/2)mv^2 \Rightarrow v = \sqrt{2gh}$. Their final velocity is independent of both their mass and the shape of their respective slides! They will in general not reach the bottom at the same time. From the figure, Kathleen will likely reach the bottom first since she will accelerate faster initially and will attain a larger speed sooner. Paul will start off much slower, and will acquire the bulk of his acceleration towards the end of his slide.
- 5.17. No. The gravitational force that the Earth exerts on the Moon is perpendicular to the Moon's displacement and so no work is done.
- 5.18. When the car is travelling at speed v_1 , its kinetic energy is $(1/2)mv_1^2$. The brakes do work on the car causing it to stop over a distance d_1 . The final velocity is zero, so the work Fd_1 is given by the initial kinetic energy: $(1/2)mv_1^2 = Fd_1$. Similarly, when the car is travelling at speed v_2 , the brakes cause the car to stop over a distance d_2 , so we have $(1/2)mv_2^2 = Fd_2$. Taking the ratio of the two equations, we have
- $$\frac{(1/2)mv_1^2 = Fd_1}{(1/2)mv_2^2 = Fd_2} \Rightarrow \frac{v_1^2}{v_2^2} = \frac{d_1}{d_2} \Rightarrow d_1 = d_2 \left(\frac{v_1^2}{v_2^2}\right)$$

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