

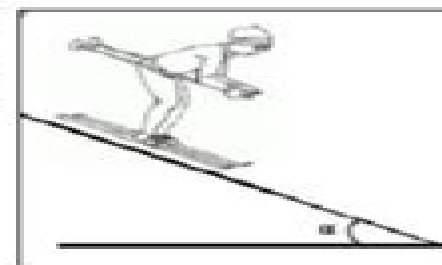
In all the exercises:

The referential is terrestrial; $g = 10 \text{ m/s}^2$.

Exercise 1

A skier (S), of mass $m = 90 \text{ kg}$, slides down a ski slope inclined at an angle $\alpha = 40^\circ$ with respect to the horizontal, at a constant speed of $v = 70 \text{ km.h}^{-1}$.

The forces of friction on (S) and the air resistance have a resultant \vec{f} which is constant and parallel to the slope. Let d be the distance covered by the point of application of \vec{f} and that of the weight of (S).

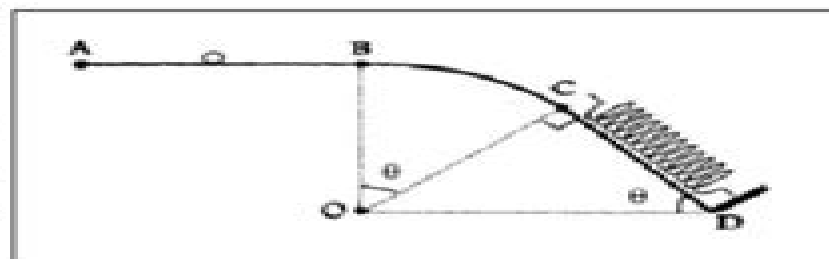


- 1) Express the work done by \vec{f} in terms of f and d .
- 2) Express the power of \vec{f} in terms of f and v .
- 3) Express the work done by the weight of (S) in terms of m , g , d and α .
- 4) Calculate f applying the work-energy theorem.

Exercise 2

A small ball, of mass $m = 0.3 \text{ kg}$, slides on a path ABCD located in a vertical plane. This path is made up of:

- A horizontal rectilinear part $AB = 40 \text{ m}$;
- A circular part BC of center O and radius $R = 2 \text{ m}$ and angle $\widehat{BOC} = \theta = 45^\circ$;
- A straight part CD inclined at an angle $\theta = 45^\circ$ with respect to the horizontal. On this part, we have a spring of stiffness constant $k = 500 \text{ N/m}$.



The force of friction exerted on the ball:

- Between A and C, has a constant magnitude $f = 0.03 \text{ N}$;
- Between C and D, is neglected.

- 1) Determine, applying the work-energy theorem, the speed v_A of the ball at A knowing that it stops at B.
- 2) The equilibrium of the ball at B is unstable. In fact, starting with $v_B = 0$, the ball slides down towards C.
 - 2-1) Represent, on the diagram above, the forces which are exerted on the ball between B and C.
 - 2-2) Show, applying the work-energy theorem, that the speed of the ball becomes $v_C = 3.38 \text{ ms}^{-1}$ at C.
- 3) At point C, the ball hits the free end of the spring which undergoes a maximum compression x_m for which the ball stops at point N before turning back. The horizontal plane passing through point C is taken as the reference level for gravitational potential energy. Applying the conservation of mechanical energy:

3-1) Show that: $x_m^2 - \frac{2mg \sin \theta}{k} x_m - \frac{mv_C^2}{k} = 0$;

3-2) Calculate the maximum compression x_m knowing that $x_m > 0$.

Exercise 3

A disk rotates at a constant rate of 120 revolutions/minute due to a motor that provides a power of 36 W. Calculate the moment of the motive couple of the motor.

Conceptual Physics Work Power Energy Test

Emilie Sanchez



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