

# Work, power, conservation of energy

## EXAMPLE 1.1.1 Calculating work for Brad Pitt's speed-of-light car

A 1500 kg car accelerates from rest, reaching 100 mi/h in 6.0 s. How much work does the car's engine do? Does the car's speed increase linearly? Does the car's speed increase linearly? Does the car's speed increase linearly?

Figure 1.1.1.1: A graph of the car's acceleration as a function of time.



Figure 1.1.1.2: A graph of the car's speed as a function of time. The speed increases linearly from 0 to 100 mi/h over 6.0 s.

constant acceleration. However, we can use the work-energy theorem. Because  $v_f = 100$  mi/h, we have

$$K_f = \frac{1}{2}mv_f^2 = 1.0 \times 10^6 \text{ J}$$

Because  $v_i = 0$  m/s, the work is

$$W_{\text{eng}} = \int_0^{100} F_{\text{eng}} v \, dv$$

We can relate the  $F_{\text{eng}} v$  term in the integrand to the car's power.

The area under the curve of Figure 1.1.1.2 is that of a triangle of width 100 mi/h. Thus

$$W_{\text{eng}} = \text{area} = \frac{1}{2}(1500 \text{ kg})(100 \text{ mi/h})^2 = 1.0 \times 10^6 \text{ J}$$

The work done by the engine is the same as the work done by the car.

$$W_{\text{eng}} = \int_0^{100} F_{\text{eng}} v \, dv = \int_0^{100} \frac{d}{dt} \left( \frac{1}{2}mv^2 \right) dt = 1.0 \times 10^6 \text{ J}$$

Figure 1.1.1.3: A graph of the car's speed as a function of time. The speed increases linearly from 0 to 100 mi/h over 6.0 s.

# Lab Manual Charles Law

**Tobias Bleicker**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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