

Work, power, conservation of energy

EXAMPLE 1.1.1 Calculating work to find how speed-off a car

A 1500 kg car accelerates from rest, reaching 60 m/s after the car starts. How much work does the car's engine do to get the car moving at 60 m/s? (The car is 1500 kg, which is the car's speed after reaching 60 m/s.)

FIGURE 1.1.1 Acceleration graph for a car.



FIGURE 1.1.2 Acceleration graph for a car. The car starts at rest and reaches 60 m/s after 20 s. The car's speed is 60 m/s at $t = 20$ s. The car's speed is 0 m/s at $t = 0$ s. The car's speed is 30 m/s at $t = 10$ s. The car's speed is 15 m/s at $t = 5$ s. The car's speed is 7.5 m/s at $t = 2.5$ s. The car's speed is 3.75 m/s at $t = 1.25$ s. The car's speed is 1.875 m/s at $t = 0.625$ s. The car's speed is 0.9375 m/s at $t = 0.3125$ s. The car's speed is 0.46875 m/s at $t = 0.15625$ s. The car's speed is 0.234375 m/s at $t = 0.078125$ s. The car's speed is 0.1171875 m/s at $t = 0.0390625$ s. The car's speed is 0.05859375 m/s at $t = 0.01953125$ s. The car's speed is 0.029296875 m/s at $t = 0.009765625$ s. The car's speed is 0.0146484375 m/s at $t = 0.0048828125$ s. The car's speed is 0.00732421875 m/s at $t = 0.00244140625$ s. The car's speed is 0.003662109375 m/s at $t = 0.001220703125$ s. The car's speed is 0.0018310546875 m/s at $t = 0.0006103515625$ s. The car's speed is 0.00091552734375 m/s at $t = 0.00030517578125$ s. The car's speed is 0.000457763671875 m/s at $t = 0.000152587890625$ s. The car's speed is 0.0002288818359375 m/s at $t = 7.62939453125 \times 10^{-5}$ s. The car's speed is 0.00011444091796875 m/s at $t = 3.814697265625 \times 10^{-5}$ s. The car's speed is 5.7220458984375e-05 m/s at $t = 1.9073486328125 \times 10^{-5}$ s. The car's speed is 2.86102294921875e-05 m/s at $t = 9.5367431640625 \times 10^{-6}$ s. The car's speed is 1.430511474609375e-05 m/s at $t = 4.76837158203125 \times 10^{-6}$ s. The car's speed is 7.152557373046875e-06 m/s at $t = 2.384185791015625 \times 10^{-6}$ s. The car's speed is 3.5762786865234375e-06 m/s at $t = 1.1920928955078125 \times 10^{-6}$ s. The car's speed is 1.78813934326171875e-06 m/s at $t = 5.9604644775390625 \times 10^{-7}$ s. The car's speed is 8.940696716308594e-07 m/s at $t = 2.9802322387695312 \times 10^{-7}$ s. 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Lab Manual Charles Law

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