



- 10) A motor has an output of 1,000 watts. When the motor is working at full capacity, how much time will it require to lift a 50-newton weight 100 meters?
- A) 100 s                      B) 10 s                      C) 50 s                      D) 5 s
- 11) If an engine rated at  $5.0 \times 10^4$  watts exerts a constant force of  $2.5 \times 10^3$  newtons on a vehicle, the velocity of the vehicle is
- A) 0.050 m/s                      B)  $2\sqrt{10}$  m/s                      C) 20. m/s                      D)  $1.25 \times 10^8$  m/s
- 12) A student running up a flight of stairs increases her speed at a constant rate. Which graph *best* represents the relationship between work and time for the student's run up the stairs?

