

What speed does Io orbit Jupiter at if its orbital radius is 4.21×10^8 m?...what is its period?

$$m_J = 1.9 \times 10^{27} \text{ kg}$$

How much work is done if a 125 kg wagon is pulled 25.0 m by a 455 N force along a rope angled at 33.0° above the ground and the wagon moves at a constant velocity? How much power was used if the event took 25.0 s?

What is the final temperature of an experiment if 144 g of ice at -11.0° are added to 455 g of water at 99.0° C?

$$c_i = 2060 \text{ J/kg}^{\circ}\text{C}$$

$$h_f = 3.34 \times 10^5 \text{ J/kg}$$

$$c_w = 4180 \text{ J/kg}^{\circ}\text{C}$$