

Exercise 8-24

The work done by the girl goes into grav. P.E. of the

$$\begin{aligned} \text{toboggan: } & m g \Delta y \\ & = (4.90 \text{ kg})(9.80 \text{ m/s}^2)(28.0 \text{ m}) \\ & = 1.34 \times 10^3 \text{ J} \end{aligned}$$