

EX 9.1 (Lever)



a) $v_{\text{left}} = \frac{1''}{\text{sec}} \Rightarrow v_{\text{right}} = \frac{2}{3}''/\text{sec}$

b) In 1 second, $8 \text{ lbs} \times \frac{2}{3}''$ of work is done in lifting the mass on the right side. The same work must be done in depressing the left side. This requires a force of $5\frac{1}{3} \text{ lbs}$.

c) Yes.