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3/9  
1.  $KE = \frac{M \cdot v^2}{2}$  (m/s)

$$KE = \frac{13,200 \text{ N} \times 31 \text{ m/s}^2}{2}$$

$$\frac{13,200 \text{ N} \times 961}{2}$$

$$\frac{12,685,200}{2} \rightarrow 6,342,600 \text{ J}$$

2.

$$M = 17 \text{ n}$$

$$v = 27$$

729

12393

6196.5

3/9/17, 8:27:15 AM

3/9/17, 2:27 AM, 37m 19s

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