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If $\frac{d}{dt} \left(\frac{1}{2} m v^2 \right) = \frac{d}{dt} \left(\frac{1}{2} m \dot{x}^2 \right)$
 $\frac{d}{dt} \left(\frac{1}{2} m \dot{x}^2 \right) = m \dot{x} \ddot{x}$
 $\frac{d}{dt} \left(\frac{1}{2} m \dot{x}^2 \right) = \frac{d}{dt} (m \dot{x} v)$
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If $\frac{d}{dt} \left(\frac{1}{2} m \dot{x}^2 \right) = \frac{d}{dt} (m \dot{x} v)$

