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For example, consider a falling body. $F=mg$ gives

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$mg=ma$, which can be written as $g=\ddot{y}$, where a dot denotes a time derivative. This is a rather simple differential equation, and you can quickly guess that $y(t)=gt^2/2$ is a solution. Or, more generally with the constants of integration thrown in, $y(t)=y_0+v_0t+gt^2/2$.

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**the time derivative of G gives, $dG/dt = 2T + \sum_i \mathbf{F}_i \cdot \mathbf{r}_i$
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