Physics 151 Pset Suggestions

September 4, 2024

[12pt]article

[margin=0.5in]geometry

amsmath amssymb amsfonts hyperref amsthm tikz-cd tikz cancel mdframed enumitem tikz-cd bm

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1 Pset 1

Recall the Lagrangian vector from class (compact form and in components)
$$\mathbb{L} = \frac{d}{dt}\nabla_{\dot{q}}\mathcal{L} - \nabla_q\mathcal{L}$$
$$\mathbb{L}_j = \frac{d}{dt}\partial_{\dot{q}_j}\mathcal{L} - \nabla_q\mathcal{L}$$