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von Buelow, Peter

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WEIGHTLESS STICK

\[ \theta_1 = \frac{ML}{3L} \]
\[ \theta = \frac{ML}{6L} \]

\[ \frac{M}{L} = \frac{48}{16} = 3 \]

SIMPLE BEAM

\[ \theta_1 = \frac{24W}{L} \]
\[ \theta_2 = \frac{WL^2}{24} = \frac{24L(16)^2}{24} = 256 \]

EQUATE \( \theta \)S

\[ \theta_1 + \theta_2 = 0 = \frac{ML}{3} + 256 = 15.33 + 256 \]

\[ M = \frac{48k}\]