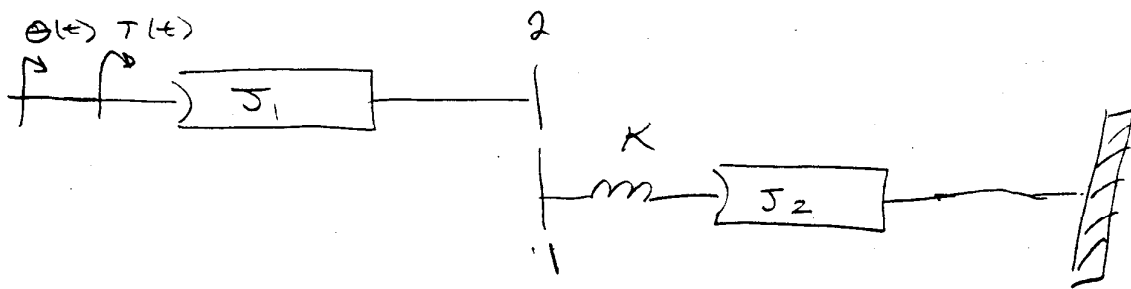KEY

Name
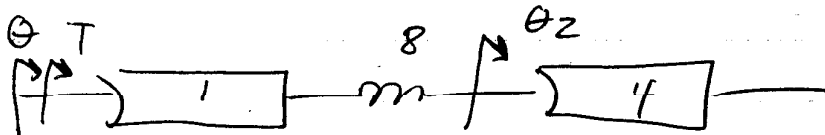
Honor Code

Write $\dfrac{\theta(\Delta)}{T(\Delta)}$ for the following. Simplify!

Use $J_1 = J_2 = 1$ and $K = 2$

rewrite

(1) $\quad T(\Delta) = \theta(\Delta)[\Delta^2 + 8] + \theta_2(\Delta)[-8]$

(2) $\quad 0 = \theta(\Delta)[-8] + \theta_2(\Delta)[4\Delta^2 + 8]$

$\Downarrow$

$$\frac{\theta(0)}{T(0)} = \frac{\Delta^2 + 2}{\Delta^2(\Delta^2 + 10)}$$