Bruce Enverson Sourge Prob (Angular) ENGRA12 400 = 200 mgm and d = -0.014w Guren Regid V/ \$ total revolutions to stup. Assump laxis of totation (Irrear problem)
Strategy: treat it like alu) &(w) = dw dt = w do
and integrate Estimate 200 mm = 200 mps = 3 mps = 18 rad/s=000 d => 100000 00/100 => 02 rad/s = 2 apt beginning estimat dave = 1 deak = - | rad/s => 180s to lose |

=> rev to stop < 600 rev = 3m. 200 mg min => 18 rad/s |

expect ~ 300 rev to stop => 30s = 1/6h => Wz = 15 rad |

expect ~ 300 rev to stop $\frac{d\omega}{d\theta} = \frac{d\omega}{d\theta} = \frac{\omega d\omega}{d(\omega)}$ $\frac{d\omega}{d\theta} = \frac{\omega d\omega}{d(\omega)}$ Som:

Bruce Emerson Sample Prob(Angular) ENGR 212 Sola: cont. Of relates θ, ω $d\theta = \left(\begin{array}{c} 0 \\ -0.014 \end{array} \right) d\omega$ Of = 1 w rad/s = wo rad/s = 0.014 rad. 30\$60.014/18) = \n \w_30 - \n \w_0 = \n \(\frac{\w_{30}}{100}\) $=) = \frac{6.42}{20} = \frac{6.57}{20} = \frac{6.57}{2$

Bruce Emerson Sample Prob(angular) ENGRA12 Soln: cont of = 238 rev) | w | t=30 = 13.8 rad/s Discussion! Both answers agree well we estimates. Had a small calculator issue at me point that had the drill speeding up which was clearly worry. I need to articulate the relateurships between the variables that I need as I choose tools for my solve. Perhaps I solved this problem I backwards of but I got there.