Problem \$2 T * L 3.1 What is Ex where Ex is due to eddies of size of Extended by cart use result from T+l prob. 1.3 $v(\lambda) = (1 \in)^{1/3} - (1 + u^3/2)^{1/3} = u(1)^{1/3}$ but 1/1 = ~ Rg-1/2 ~ Rx-1 (3.2.17) so v(1) ~ u R1-1/6 ~ u R1-1/3 Etotal ~ DUZ, definition of Taylor uscale Ef due to strain rate $\frac{v_1}{\lambda} \rightarrow v_1^2 \sim v_2^2 R_1^{-1/3}$ Ex ~ R_1-1/3 ~ R_2-2/3 <<1 for large Re, Rx