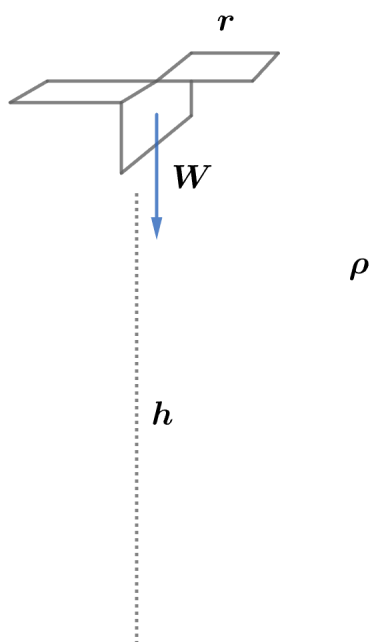# 2014 F=ma Exam: Problem 12

Kevin S. Huang

Since the helicopter quickly reaches terminal velocity v_t, from kinematics, the time T of flight is given by

$$T = \frac{h}{v_t} \propto h^1$$

Thus, $\alpha = 1$ so the answer is $\boxed{\text{E}}$.