



WEEK: \_\_\_\_\_

PROBLEM: \_\_\_\_\_

**GIVEN:**

As the 32,000-lb airplane takes off, the tangential component of force exerted on it by its engines is  $\Sigma F_t = 45,000$  lb. Neglecting other forces on the airplane, determine (a) the maximum power and (b) the average power transferred to the airplane as its velocity increases from zero to 200 mi/h.

**REQUIRED:****SOLUTION:**