

ET332a
Mechanics for Motors and Generators Homework

- 1.) A force of 200 N is applied perpendicular to the end of a wrench that has a length of 30 cm. What is the torque developed on the bolt?

- 2.) An auto engine develops a torque of 600 N-m at a speed of 4000 rpm. Calculate the power output of the engine in both horsepower and watts.

- 3.) A crane lifts a load of 600 lb-force to a height of 200 ft in 15 seconds. Calculate the power required for this lift in both watts and horsepower.