Name
Favorite YouTube video (besides physics) Show your work, and circle your answers to receive full credit.
1. If a heater is 78.0% efficient, how much fuel energy would it consume to provide 120. J of useful heat? How much useful heat could it produce from 360. J of fuel energy?
2. How much time does it take for a 450. Watt heater to produce 4580 J of heat? What heat will it put out in 32.0
s?
3. What work would you do dragging a 56.5 kg box 12.0 m over a level floor (at a constant low speed) where the coefficient of dynamic friction is 0.215?
coefficient of dynamic friction is 0.213?
4. What is the minimum power rating a motor could have if it is to lift a 560. kg elevator 35.0 m in 78.0 seconds?