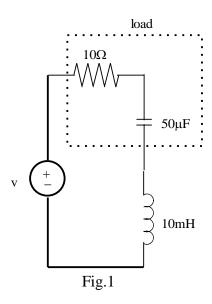
## ECET341 Homework 3

- (1) For the circuit shown in Fig.1, the voltage source is given by  $v = 20\cos(2000t)$  (V). Find
  - (a) the average power delivered to the load.
  - (b) the reactive power delivered to the load.
  - (c) the power factor of the load.
  - (d) the reactive factor of the load.
  - (e) the peak value of the instantaneous power delivered by the source.



(2) Find the average power, the reactive power, and the apparent power absorbed by the load in the circuit shown in Fig.2 if  $i = 20\cos(100t)$  (A).

