

EECS 212  
S.P. 11.1

A  $25\ \Omega$  resistor has an applied voltage of:

$$v(t) = 3\cos 100t + 4\cos(100t + 50^\circ) + 5\sin 50t \quad [\text{V}]$$

- a) What is the average power  $P$  supplied to the resistor? (Hint: the answer is NOT 1.0 [W])
- b) What is the effective value of this voltage?