



Consider the circuit above when answering the questions posed below. Another copy of the circuit appears on the next page if you need it.

- What value of  $I_x$  will result in a voltage drop of 16 V across the 10 kΩ resistor
- To reduce cost, it is desired that each resistor in the circuit have the same power rating. Using the results of (a), what power rating – to the nearest 0.1W – is needed?

Value of  $I_x$ : \_\_\_\_\_

Power Rating for Resistors: \_\_\_\_\_