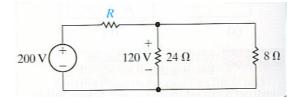
## KING FAHD UNIVERSITY OF PETROLEUM & MINERALS ELECTRICAL ENGINEERING DEPARTMENT EE-201 ELECTRIC CIRCUITS Dr. Ibrahim O. Habiballah

Sec: 9 Quiz # 1 Ser. # Name:

**I.D.**#

For the circuit shown below, find the value of the resistor "R".



Solution:

By KCL and Ohm's Law

 $i_R = 120/24 + 120/8 = 20 \ A$ 

By KVL

200 = R (20) + 120

R = 4 Ohm