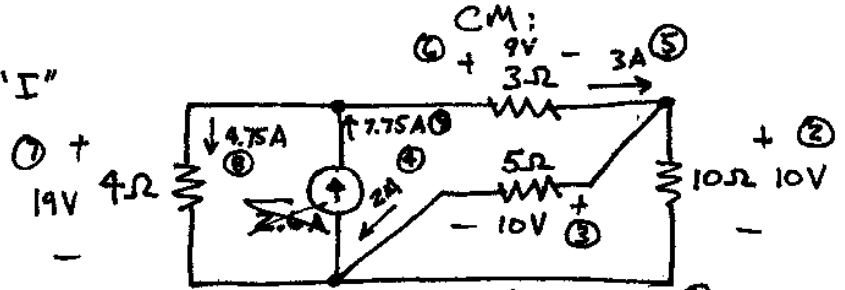


① Find the current "I" using the proportionality analysis method.



(Circled numbers indicate the sequence of calculations)  $I = 1A$

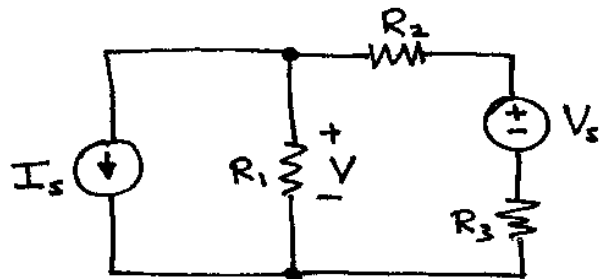
Proportionality constant =  $K = \frac{1A}{7.75A} = 0.129$

$\Rightarrow I = (2.6A)K = \boxed{0.335A}$

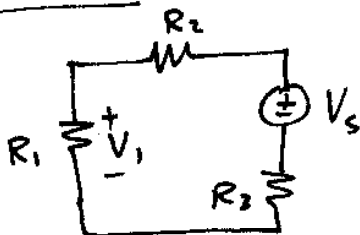
22-141 50 SHEETS  
22-142 100 SHEETS  
22-144 200 SHEETS



② Solve for the voltage "V" using the superposition analysis method.

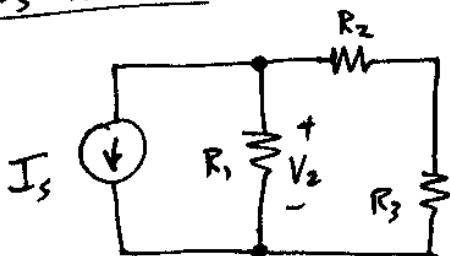


$V_s$  active:



$V_1 = \frac{R_1}{R_1 + R_2 + R_3} V_s$  (voltage divider)

$I_s$  active:



$V_2 = \left( \frac{R_2 + R_3}{R_1 + R_2 + R_3} I_s \right) (-R_1)$   
current divider      convert to voltage

Both active:

$V = V_1 + V_2$