EXPERIMENT: No. 2 Nevification of KCL Page No. Date 20 11 21
KCL -> Kirchoff's current Law
+K11→
Verify K(L by applying it is Ξ I incoming Ξ I outgoing the circuit.
To find: Rate of current Louising the source of the sourc
To 1: 1. D
to find: Kate of current It
flowing through 2-s
flowing through 20 To
+7,
Points, A, B, C, D, E form a node
$I_2 + I_4 + 8 + 5 = 16$ (KCL). $I_2 + I_4 = 16 - 13$
$\frac{1}{1} + 1y = 3A - 0$
Apply current division to find Is
$I_2 = I_1 \times Y = 3 \times Y = 2A$
2+4 6
$I_2 = 2A$
Recall equation (1)
$I_{4} = 3 - 2 = 14$
In the simulation we can see that the
Value of current mater with the above
theoretical analysis. Thus, KCL is verified.

