

Find mesh Qurent

| KUI at mesh 
$$0$$
 |
| 62 - 5I\_1 - 16 - 6(I\_1 - I\_2) = 0 |
| 46 - 11 I\_1 + 6 I\_2 = 0 |
| 11 I\_1 - 6I\_2 = 46  $\longrightarrow$   $0$  |
| at loop (mesh  $0$ ) |
| mesh Current  $I_2 = -4A$   $\longrightarrow$   $0$  |
| I I\_1 - (6\* -4) = 46 |
| I =  $46 - 24 = 2A$   $\longrightarrow$   $I_1 = 2A$ 

| Mesh Current |
| KUI at mesh  $0$  |
| -120 + 0.5 Us - 8 I\_1 - 6(I\_1 - I\_2) = 0 |
| 14I\_1 + 8 I\_2 = 120  $\longrightarrow$   $0$  |
| 120 - 6(I\_2 - I\_1) - 2 I\_2 - 4 I\_2 - 60 = 0 |
60 + 6 I\_1 -	2 I\_2 = 0  $\longrightarrow$   $0$
50	$0$
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I2 = 1A

الممسوحة صوليا بـ CamScanner

5 find node voltages by applykel atnode (1) 15A 57 = I1+ I2+15 57-15 = I1+ I2 39 A 57A(1  $I_{1+}I_{2} = 42$  $\frac{U_{1-0}}{14} + \frac{U_{1}-U_{2}}{1/6} = 42$ R Jim G Jacolina R = 1 2 4V1 + 6U1-6U2 =42 10 U1 - 6U2 =42 ley apply kal at @ 15+39 = I4+I2 54 = I4+ I3 اعرض الجوود  $\frac{U_2-V_1}{1/6} + \frac{U_2}{1/8} = 54$ 6U2-6U1 +8U2 = 54 -6U1+14U2 = 54 --- 30 by so lue DI 2 U1= 8,769 Uolt Uz = 7,615 volt