

1.08V1-0.5V2=5-Apply Kd at node 3 $\frac{\sqrt{2^{-1}}}{2} + \frac{\sqrt{2}}{6} + \frac{\sqrt{2^{-10}}}{5} = 0$ い「三」キリン「をち」=2一〇 V1=279V, V2=3.95V Modal Analysis when werent source is P 5A (1) Solli- Apply Kel + ohnis law $\frac{V-10}{2} + \frac{1}{2} = 5$ 0.21+0-33N=10 0,831 = (0

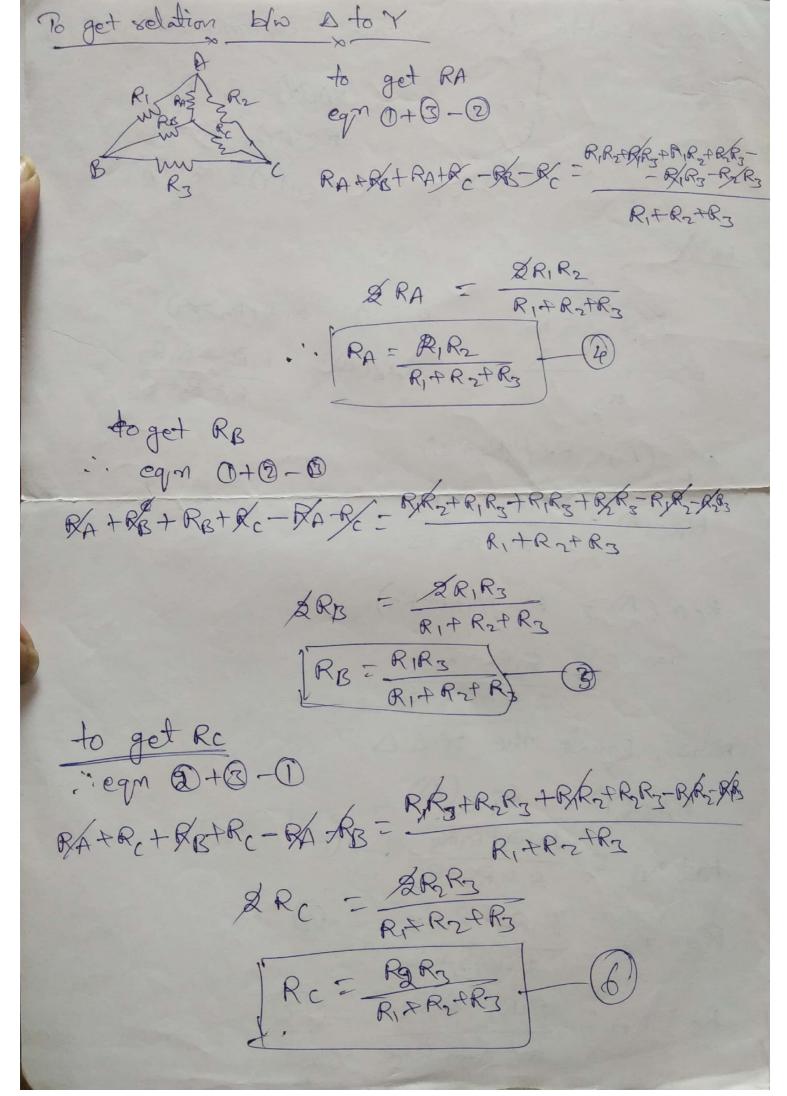
$$V = \frac{10}{0.83} = 12V$$

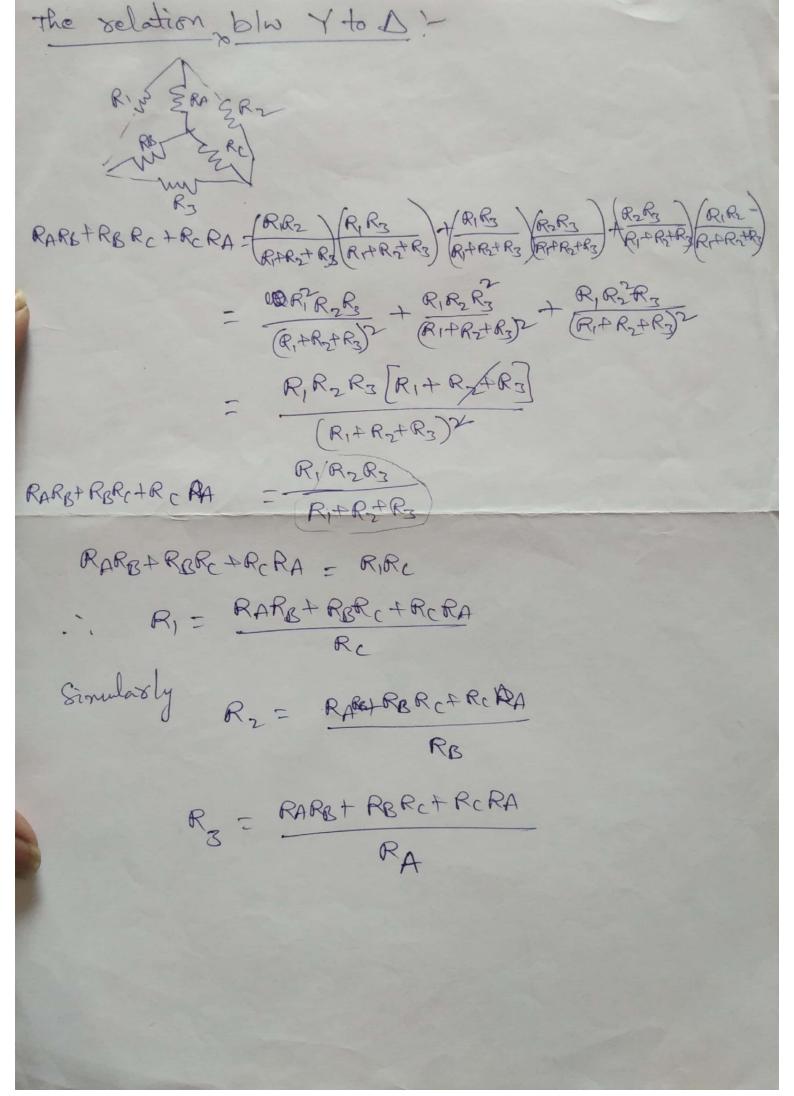
$$I_{22} = \frac{12-10}{2} = 1A$$

$$I_{32} = \frac{V}{3} = \frac{12}{3} = 14A$$

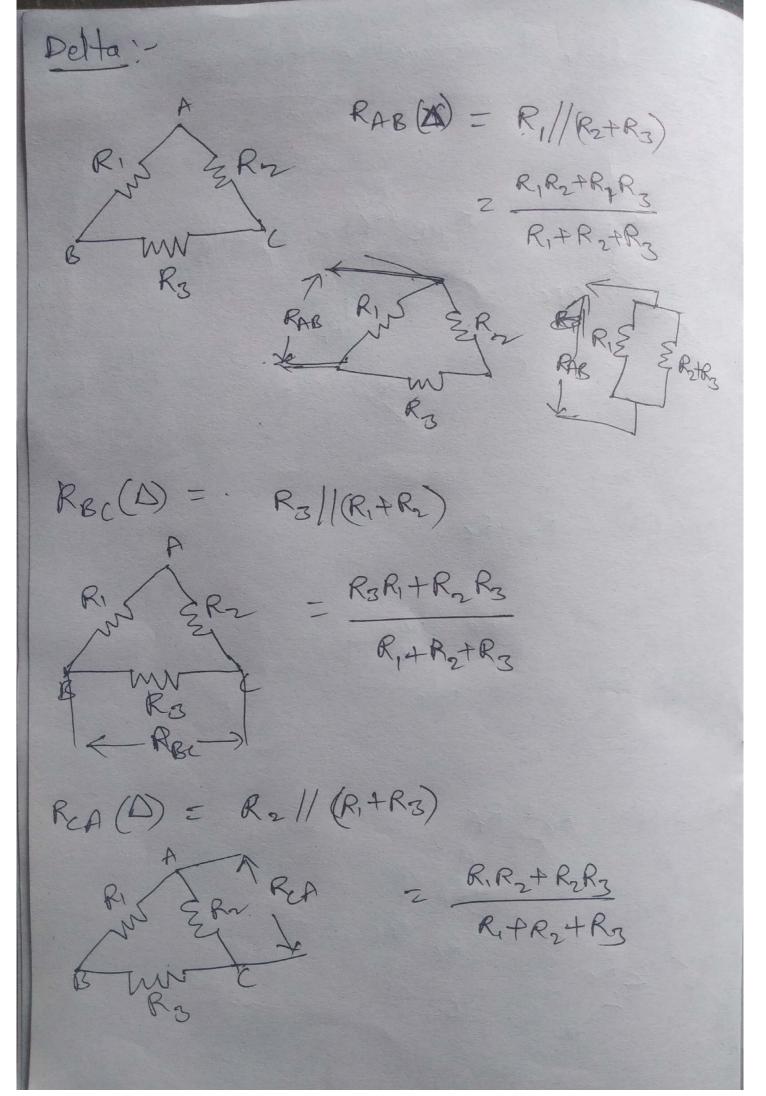
$$I_{22} + I_{32} = 1 + 4 = 5A$$

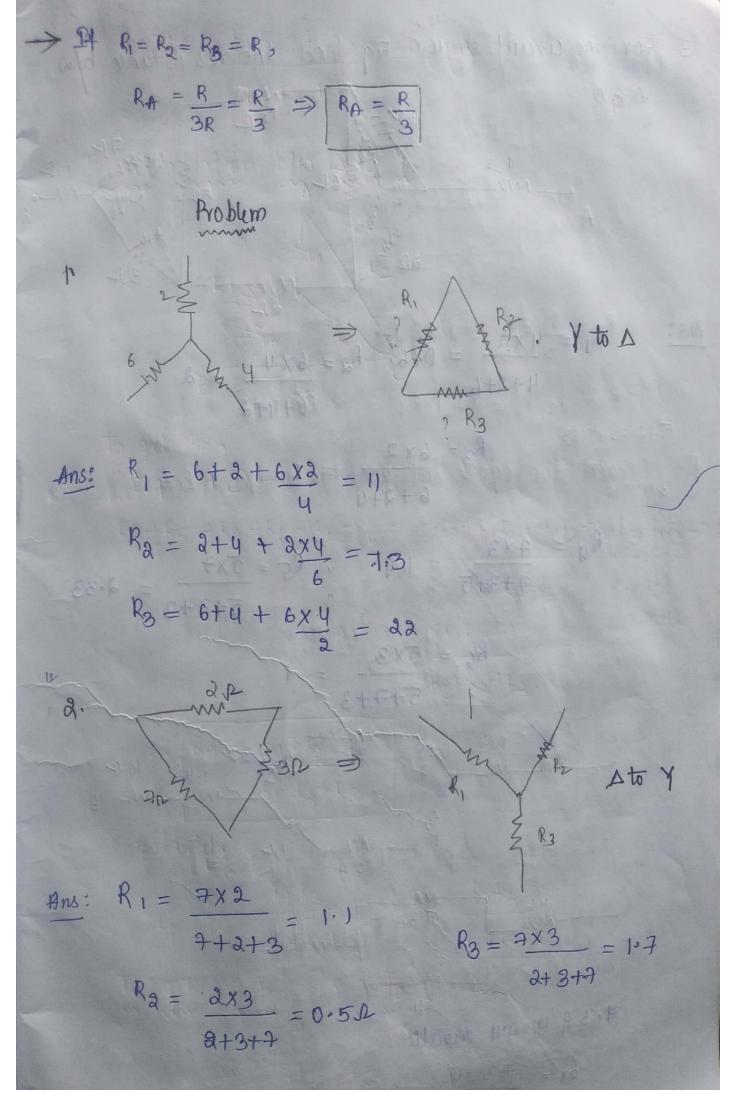
Stax - Delta transformation Pechnique: RAB(X) = RA+RB RBC(Y) = RB+RC RCA(Y) = RC+RA RAB (A) = R1 11 (R2+R3) RAB(A) = R,R2+R,R3 RIX R2+ R3 RB((A) = R3//(R2+R)) $RB(C) = \frac{R_1R_3 + R_2R_3}{R_1 + R_2 + R_3}$ RCA (A) = R2 1/(R1+R3) = R1R2+R2R3 R1+R2+R3 Now, Equate the Y&D RAB (M) = RAB (D) RATERS = RIRZTRIRZ
RIARZTRIRZ
RIARZTRIRZ RB+RC = RIRS+RORS RIPRZ+R3 RIR2+RORZ RC+RAI RIFRZARJE



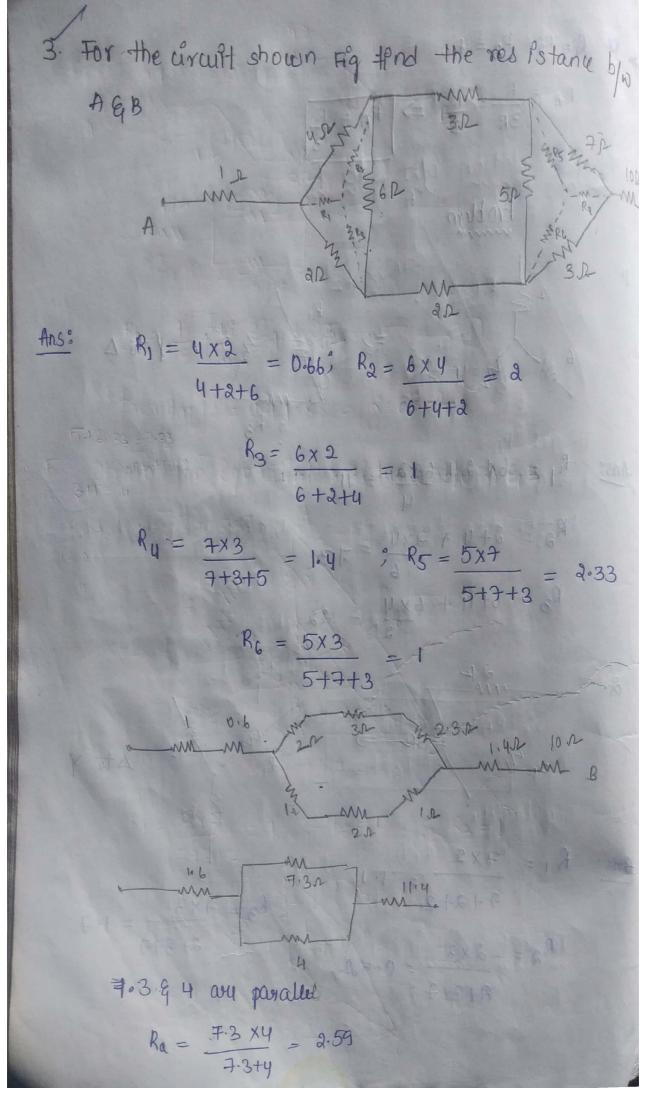


Stax - delta transfermation technique RBC(Y) = RB+RC

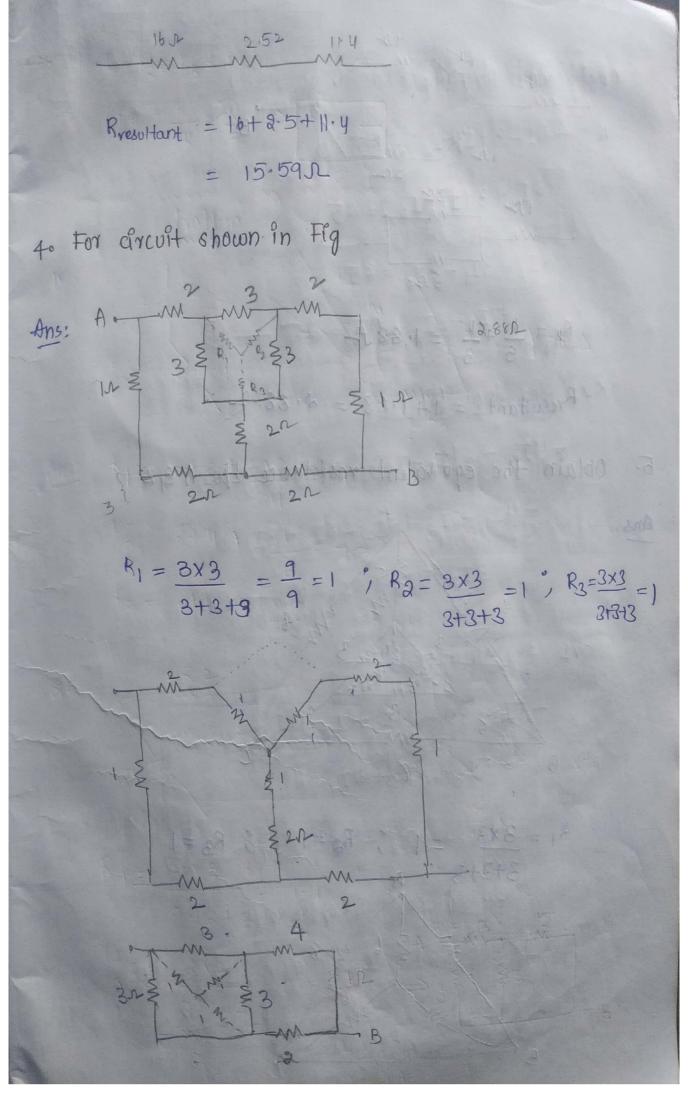




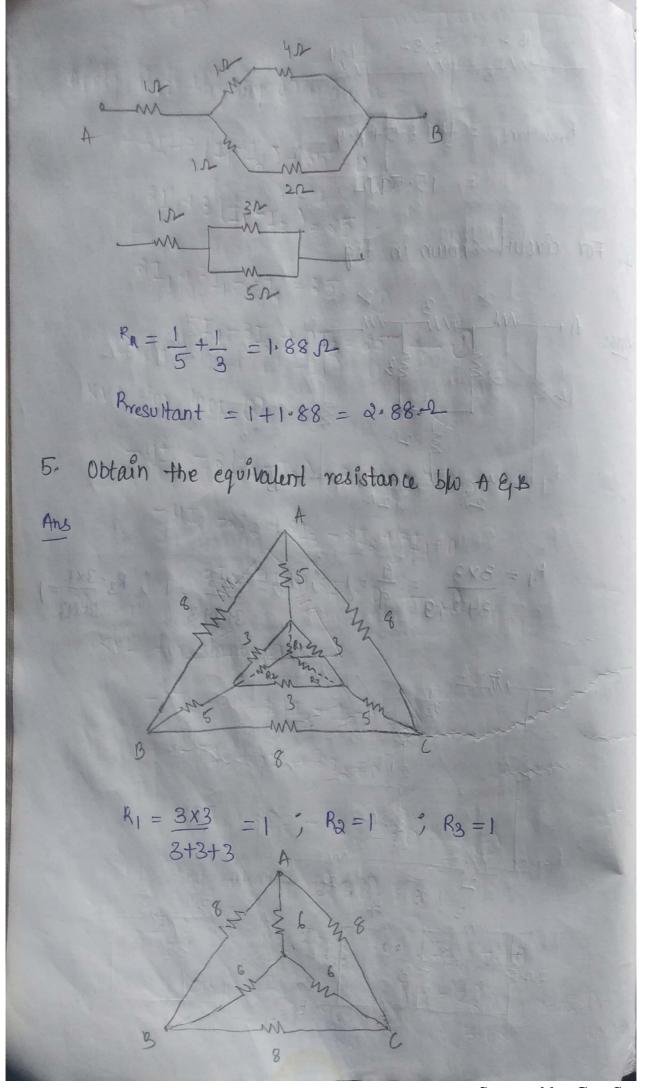
Scanned by CamScanner



Scanned by CamScanner



Scanned by CamScanner



Scanned by CamScanner

