



where:
$$\frac{2}{2+h} = (j \times_{(2} + j \times_{G_1}) || (j \times_{G_2})$$

$$= (j \cdot_{(3)}) || (j \cdot_{(3)}) || (j \cdot_{(3)})$$

$$= (j \cdot_{(3)}) || (j$$

$$\begin{array}{c} PAI_{1} = (j \times_{G_{1}})(-A_{G_{1}}); \quad AI_{G_{1}} = AI_{12} \\ = (j \circ \cdot i S)(-(-j \cdot \cdot 6)) \\ = (j)^{2}(0 \cdot i S)(i \cdot 6) = -0 \cdot 24 \\ NOW, \\ V_{1}(S) = V_{1}(0) + AV_{1} = 110 - 0 \cdot 24 \\ = 0 \cdot 76 \\ V_{2}(F) = V_{2}(0) + AV_{2} = 110 - 0 \cdot 48 \\ = 0 \cdot 52 \\ PAI_{G_{1}} = PI_{12} = -j \cdot 1 \cdot 6 ; \quad Was found previously pr$$

010h Z: For power flow analysis we haw: 32713= 731 my 2= 732  $9_{12} = 9_{21} = \frac{1}{j_{0.1}} = -j_{10}$ 313 - 331 = 1/(10.5) = -15 $y_{23} = y_{33} = 1/(j \cdot 0.25) = -j4$ \-\frac{31}{31} -\frac{32}{32} \frac{3+4}{31} \frac{32}{32}  $= \begin{bmatrix} -j15 & +j10 & +j5 \\ +j10 & -j14 & +j4 \end{bmatrix}$ +15 +14 -19 b) (over)

