Question # 2 (Marn)

=> Solve Sor & 3 sex equal

=>
$$e_z = \frac{B}{A} \frac{P_1}{P_2} e_1$$
 where $e_2 l e_1$

=> Plug into (10)

ping into (

=>
$$8^{+}, 8^{-} = \left(\frac{\Delta}{(\Delta+\beta)} \frac{M}{P_1}, \frac{B}{(\Delta+\beta)} \frac{M}{P_2}\right)$$

0//

3a) using equation (11) 3 (12) we can (math) Solve Son > s.t. (51) $\frac{1}{q_2} = \lambda Pz$ $\frac{\alpha}{2} = \lambda P_{i}(1+\gamma)$ => & B 8,P,(1+2) => \$ => 2,P2 $\frac{\alpha}{2.P_1(1+\gamma)} = \frac{\beta}{2.P_2} = \lambda$ 82 = B P((1+7) 8, plugging into (13) 87. 82(81) P. (1+4) 81+ P2 (B P. (1+4) 81) = M P,(1+1)8, + B P,(1+1)8, = M P.LI+1/8, (1+B) P, (1+4) 81 = (04+B) M 9= = (a+B) P(1+7) (81)

 $\Rightarrow g_{2}^{*} = \frac{B}{\alpha} \frac{P((1+\gamma k))}{P_{2}} \left(\frac{\gamma k}{(\alpha+\beta)} \frac{M}{P((1+\gamma k))} \right) = \frac{B}{(\alpha+\beta)} \frac{M}{P_{2}}$

plugging into

Question # 4 4a) using equations (14) & (15) (Marh) (15) 04(81-21) (82-02) = (1-2)(9/61) (8x 02) (both equal to => solving for 42LBI) (82-02) = (1-4) Pit (8,-01) 8== 8= + (1-4) PIT (8,-71) (4) plugging into BC (16), \$ some song. => P18.7+ P2 (72+ (1-8) P17(8,-01) = M PIBOT + PIT(8,-01) = + PZ 82 = M P1817 + P17 (1-2) - P1781 (1-4) + P282 =M P1817(1+ (1-d)) - P1781 (1-d) + P272 P1817(2)-P1781(1-2)+P282=M P18,7 = P, 7 8, (1-0) - P282 +M 8 = 5(1-d) + d(M-P272)

ping backinto @ + 20+ 82

$$\Rightarrow from \Theta$$

$$\theta_{2} = \sigma_{2} + \frac{(1-\alpha)}{\alpha} \frac{\rho_{1} \gamma}{\rho_{2}} \left(\sigma_{1}(1-\alpha) + \frac{\alpha(m-\rho_{2} \gamma_{2})}{\rho_{1} \gamma} - \sigma_{1} \right)$$

$$\theta_{2} = \sigma_{1} + \frac{(1-\alpha)}{\alpha} \frac{\rho_{1} \gamma}{\rho_{2}} \left(\frac{\alpha(m-\rho_{2} \gamma_{2})}{\rho_{1} \gamma} - \alpha \sigma_{1} \right)$$

$$\theta_{2} = \sigma_{2} + \frac{(1-\alpha)(m-\rho_{2} \delta_{2})}{\rho_{2}} - \frac{\alpha \gamma_{1}(1-\alpha)\rho_{1} \gamma}{\alpha \gamma_{2}}$$

$$\Rightarrow \theta_{2} = \sigma_{2} + \frac{(1-\alpha)(m-\rho_{2} \delta_{2} - \sigma_{1}\rho_{1} \gamma_{1})}{\rho_{2}}$$

$$\theta_{3} = \gamma_{2} - (1-\alpha)\gamma_{2} + \frac{(1-\alpha)(m-\gamma_{1}\rho_{1} \gamma_{1})}{\rho_{2}}$$

$$\theta_{3} = \gamma_{4} - (1-\alpha)\gamma_{2} + \frac{(1-\alpha)(m-\gamma_{1}\rho_{1} \gamma_{1})}{\rho_{2}}$$

$$\theta_{3} = \gamma_{4} - \alpha \gamma_{2} + \frac{(1-\alpha)(m-\gamma_{1}\rho_{1} \gamma_{1})}{\rho_{2}}$$

$$\theta_{3} = \gamma_{4} - \alpha \gamma_{2} + \frac{(1-\alpha)(m-\gamma_{1}\rho_{1} \gamma_{1})}{\rho_{2}}$$

$$\theta_{3} = \gamma_{4} - \alpha \gamma_{2} + \frac{(1-\alpha)(m-\gamma_{1}\rho_{1} \gamma_{1})}{\rho_{2}}$$

$$\theta_{3} = \gamma_{4} - \alpha \gamma_{2} + \frac{(1-\alpha)(m-\gamma_{1}\rho_{1} \gamma_{1})}{\rho_{2}}$$

$$\theta_{3} = \gamma_{4} - \alpha \gamma_{2} + \frac{(1-\alpha)(m-\gamma_{1}\rho_{1} \gamma_{1})}{\rho_{2}}$$

$$\theta_{3} = \gamma_{4} - \alpha \gamma_{2} + \frac{(1-\alpha)(m-\gamma_{1}\rho_{1} \gamma_{1})}{\rho_{2}}$$

$$\theta_{3} = \gamma_{4} - \alpha \gamma_{2} + \frac{(1-\alpha)(m-\gamma_{1}\rho_{1} \gamma_{1})}{\rho_{2}}$$

$$\theta_{3} = \gamma_{4} - \alpha \gamma_{2} + \frac{(1-\alpha)(m-\gamma_{1}\rho_{1} \gamma_{1})}{\rho_{2}}$$

$$\theta_{3} = \gamma_{4} - \alpha \gamma_{2} + \frac{(1-\alpha)(m-\gamma_{1}\rho_{1} \gamma_{1})}{\rho_{2}}$$

$$\theta_{3} = \gamma_{4} - \alpha \gamma_{4} + \frac{(1-\alpha)(m-\gamma_{1}\rho_{1} \gamma_{1})}{\rho_{2}}$$

$$\theta_{3} = \gamma_{4} - \alpha \gamma_{4} + \frac{(1-\alpha)(m-\gamma_{1}\rho_{1} \gamma_{1})}{\rho_{2}}$$

$$\theta_{3} = \gamma_{4} - \alpha \gamma_{4} + \frac{(1-\alpha)(m-\gamma_{1}\rho_{1} \gamma_{1})}{\rho_{2}}$$

$$\theta_{3} = \gamma_{4} - \alpha \gamma_{4} + \frac{(1-\alpha)(m-\gamma_{1}\rho_{1} \gamma_{1})}{\rho_{2}}$$

$$\theta_{3} = \gamma_{4} - \alpha \gamma_{4} + \frac{(1-\alpha)(m-\gamma_{1}\rho_{1} \gamma_{1})}{\rho_{2}}$$

$$\theta_{3} = \gamma_{4} - \alpha \gamma_{4} + \frac{(1-\alpha)(m-\gamma_{1}\rho_{1} \gamma_{1})}{\rho_{2}}$$

$$\theta_{4} = \gamma_{4} - \alpha \gamma_{4} + \frac{(1-\alpha)(m-\gamma_{1}\rho_{1} \gamma_{1})}{\rho_{2}}$$

$$\theta_{4} = \gamma_{4} - \alpha \gamma_{4} + \frac{(1-\alpha)(m-\gamma_{1}\rho_{1} \gamma_{1})}{\rho_{2}}$$

$$\theta_{5} = \gamma_{5} - \alpha \gamma_{5} + \frac{(1-\alpha)(m-\gamma_{1}\rho_{1} \gamma_{1})}{\rho_{2}}$$

$$\theta_{5} = \gamma_{5} - \alpha \gamma_{5} + \frac{(1-\alpha)(m-\gamma_{1}\rho_{1} \gamma_{1})}{\rho_{2}}$$

$$\theta_{5} = \gamma_{5} - \alpha \gamma_{5} + \frac{(1-\alpha)(m-\gamma_{1}\rho_{1} \gamma_{1})}{\rho_{2}}$$

$$\theta_{5} = \gamma_{5} - \alpha \gamma_{5} + \frac{(1-\alpha)(m-\gamma_{1}\rho_{1} \gamma_{1})}{\rho_{2}}$$

$$\theta_{5} = \gamma_{5} - \alpha \gamma_{5} + \frac{(1-\alpha)(m-\gamma_{1}\rho_{1} \gamma_{1})}{\rho_{2}}$$