a)
$$P_{ericd} = \frac{1}{C_1 + S_1} = V_1 (1 - Z_1) \int_{1}^{1} \frac{C_2 = (S_1(1+r_1) + V_2(1-Z_2)) \int_{2}^{1} \int_{1+r_1}^{1} C_2 = (S_1(1+r_1) + V_2(1-Z_2)) \int_{2}^{1} \int_{1+r_1}^{1} C_2 = (S_1(1+r_1) + V_2(1-Z_2)) \int_{2}^{1} \int_{1+r_1}^{1} C_2 = (S_1(1-Z_2)) \int_{1}^{1} = (S_1 + \frac{C_2}{1+r_1} - \frac{V_2(1-Z_2)}{1+r_1} \int_{1-r_1}^{1} = V_1 (1-Z_2) \int_{1}^{1} + \frac{C_1(1-Z_2)}{1+r_1} \int_{1-r_1}^{1} = (S_1 + \frac{C_1}{1+r_1} C_2 = W_1(1-Z_2)) \int_{1}^{1-r_1} + \frac{C_1(1-Z_2)}{1+r_1} \int_{1-r_1}^{1-r_1} + \frac{C_1(1-Z_2)}{1+r_1} \int_{1-r_1}^{1-r_1} + \frac{C_1(1-Z_2)}{1+r_1} \int_{1-r_1}^{1-r_1} + \frac{C_1(1-Z_2)}{1-r_1} \int_{1-r_1}^{1-r_1} + \frac{C_1(1-r_2)}{1-r_1} \int_{1-r_1}^{1-r_1} + \frac{C_1(1-r_2$$

(continued on next page)

List of part b functions
$$\frac{1}{C_1} = \lambda, \quad \frac{e^{-\rho}}{C_2} = \lambda \cdot \frac{1}{1+\rho}, \quad b(1-\lambda_1)^{-\gamma} = \lambda(w,(1-\lambda_1)) e^{-\rho}(1-\lambda_2)^{-\gamma} = \frac{\lambda w_1(1-\lambda_2)}{1+\rho}$$
b (ant.)
$$\frac{b(1-\lambda_1)}{v_1(1-\lambda_1)} = \lambda, \quad e^{-\rho}(1-\lambda_2)^{-\gamma} \cdot \lambda \cdot \frac{v_2(1-\lambda_2)}{1+\rho}$$

$$e^{-\rho}(1-\lambda_2)^{-\gamma} = \frac{b(1-\lambda_1)}{w_1(1-\lambda_1)} \cdot \frac{w_2(1-\lambda_2)}{1+\rho}$$

$$\frac{(1-\lambda_2)^{-\gamma}}{(1-\lambda_2)^{-\gamma}} = \frac{b(1-\lambda_1)^{-\gamma}}{w_1(1-\lambda_1)} \cdot \frac{w_2(1-\lambda_2)}{1+\rho}$$

$$\frac{(1-\lambda_2)^{-\gamma}}{(1-\lambda_1)^{-\gamma}} = \frac{v_2(1-\lambda_2)}{v_1(1-\lambda_1)} \cdot \frac{b}{e^{\rho}(1+\rho)}$$
The Wall- λ_1 of the part of the part of the first of the fi

- C) Returning to the equation in part by an increase in tox in one period would load to an reduction in leisure for that some period. It appears, board on this utility function, that the consumer has a balanced preference founds work and lessure. If wases go up in one period, they to happy to work less to important the some consumption, but if toxes go up, threy will work more, again to maintain steady consumption.
- d) Reflering to the equation derived in part of gamma controls the elasticity of leisure. A high gamma would lead to a highly elastic leisure curve, meaning changes to moses of toxes would have a large impact on leisure. The music is also true, a low gamma course changes in the right-hard side of the equation to barely change leisure.
 - e) Without resolving the entire problem again, it is plain to see that a lunpsum tax would disappear from the equation as partial derivatives come into play. Lump sum toxes, no matter the size, will not change the relative demand for lessure in anyway.