

Equations for ECON 1010 Final Exam

$$GDP = C + I + G + NX$$

$$Labor\ Force = Unemployed + Employed$$

$$Unemployment\ Rate = \frac{Unemployed}{Labor\ Force} \times 100$$

$$Labor\ Force\ Participation\ Rate = \frac{Labor\ Force}{Population} \times 100$$

$$Natural\ Rate\ of\ Unemployment = Frictional + Structural$$

$$Inflation\ Rate = \frac{(New\ Price\ Level - Old\ Price\ Level)}{Old\ Price\ Level} \times 100$$

$$i = r + \pi^e$$

$$CPI = \frac{Cost\ of\ the\ Basket\ in\ the\ Current\ Year}{Cost\ of\ the\ Basket\ in\ the\ Base\ Year} \times 100$$

$$GDP\ Deflator = \frac{Nominal\ GDP}{Real\ GDP} \times 100$$

$$Number\ of\ Years\ for\ Variable\ to\ Double = \frac{70}{Annual\ Growth\ Rate}$$

$$I = S + NCI$$

$$S = S_{public} + S_{private} = (T - G - TR) + (Y - T + TR - C)$$

$$NPV = \frac{\$1}{(1 + r)^N}$$

$$Spending\ Multiplier = \frac{1}{1 - MPC}$$

$$Tax\ Multiplier = \frac{-MPC}{(1 - MPC)}$$

$$C = A + MPC \times Y_d$$

$$I = I_{planned} + I_{unplanned}$$

$$Y = AE_{planned} + I_{unplanned} = (C + I_{planned}) + I_{unplanned}$$

$$Money\ Multiplier = \frac{1}{rr}$$