Econ 522: Intermediate Macroeconomics, Fall 2017 Business Cycle Problem Set 1: Expenditure & the Keynesian Cross

1. See prior handout

- 2. (a) Shifts down by the amount of the decrease. Vertical intercept goes from 425 to 325.
 - (b) $Y_{e2} = 1,300, DI = 1,200, C = 1,100, PriS = 100, PubS = 0, S = 100.$
 - (c) Compare S here to S before the change (i.e., in problem 1). I does not change in this problem.
 - (d) See notes and textbook.
- 3. (a) $\uparrow E$ by $\triangle G \Rightarrow \uparrow Y$ by $\frac{1}{(1-MPC)} \times \triangle G$. See the textbook or class notes for additional details, if you're not comfortable with drawing the graph, applying the multiplier, or the with the underlying explanations.
 - (b) $\downarrow E$ by $\triangle T \times MPC \Rightarrow \downarrow Y$ by $\frac{MPC}{(1-MPC)} \times \triangle T$. See the textbook or class notes for additional details, if you're not comfortable with drawing the graph, applying the multiplier, or the with the underlying explanations.
 - (c) Combine the effects of part a and b. Use that $\triangle T = \triangle G$ to simplify.
- 4. (a) E = 720 + 0.8Y 5r.
 - (b) Solve the equation in part a for an equation for equilibrium Y (Y = 3,600 25r). When r = 10, Y = 3,350.
 - (c) Select any other two values for r, and find the corresponding Y using the equation for Y.