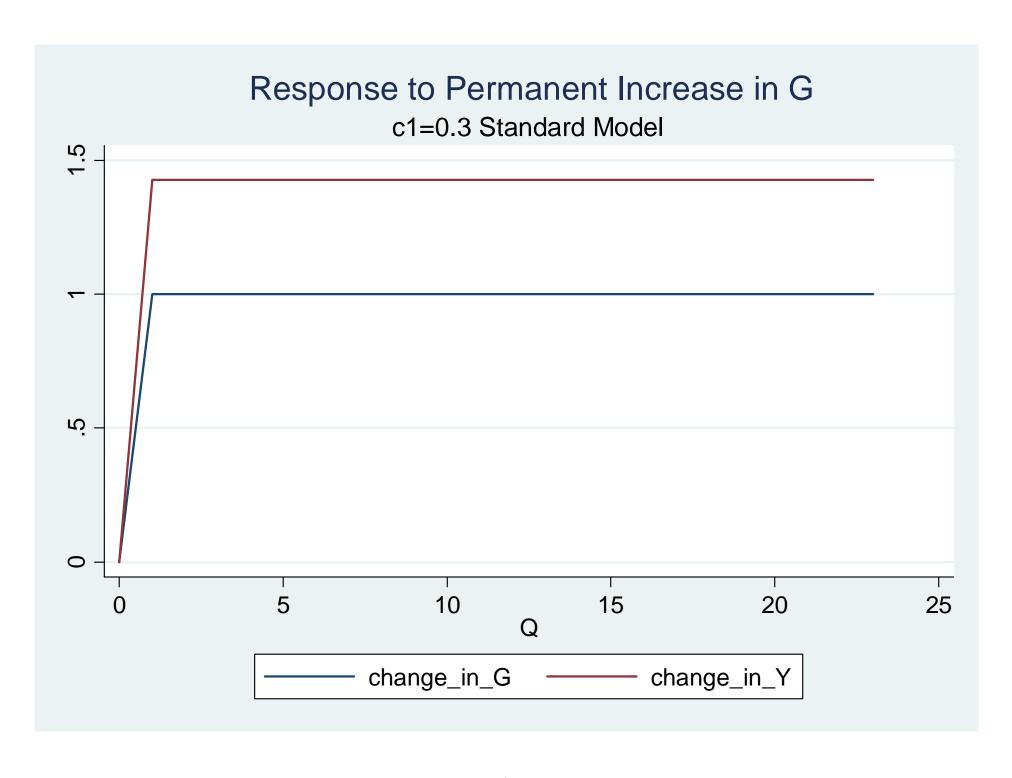
Explaining C. Romer Numbers

(Slide 25 IS/LM)

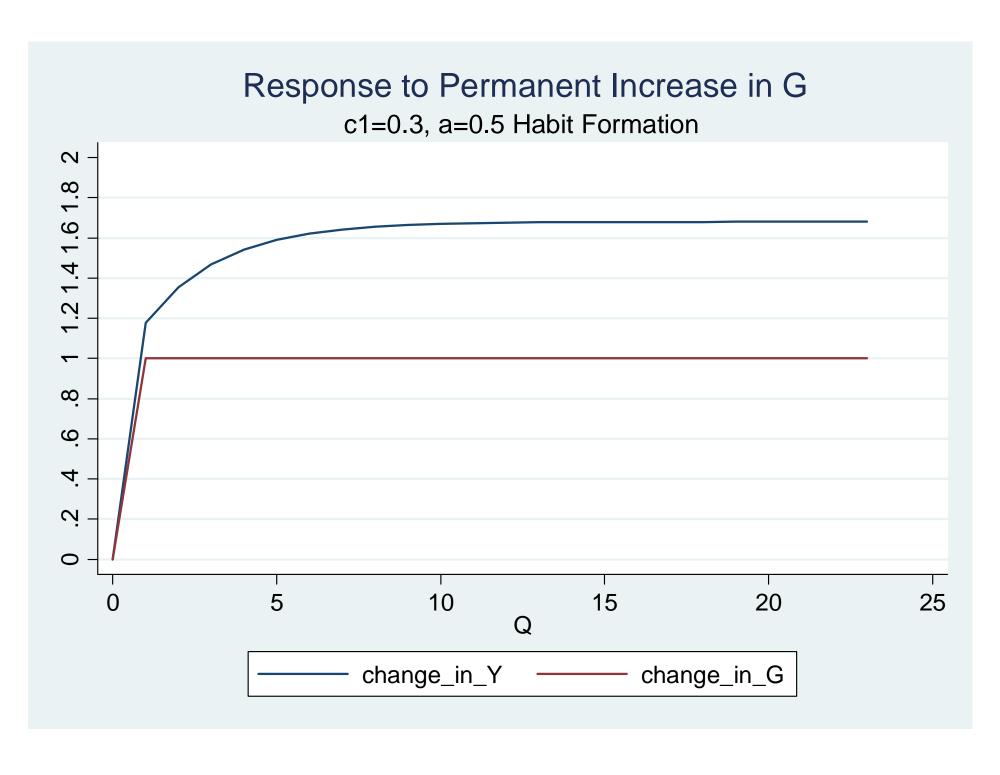
Using Model from Class

- $Y = (c_0 + I + G c_1 T)/(1 c_1)$
- One unit increase in G increases Y by 1/(1-c₁)
- Inconsistent with numbers from C. Romer which are generally increasing
- Implies c₁ changing across quarters
- Or generated by different model



Alternative Habit Formation Model

- C(t) C(t-1) = a(C(t) * C(t-1)) $- with C(t) * = c_0 + c_1 Y(t)$ - 0 < a <= 1- For a = 1, C(t) = C(t) *
- Y(t) = C(t) + G(t)
- Solution: Y (t) = c_0 + (1-a)C(t-1) + G (t)/(1-a c_1)



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