## Macro II ECON 816 Homework 1

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## Problem set 1: Numerical example

This means that the  $c_1$  intercept is  $-\frac{11}{10}(0) + \frac{231}{5} = 46.2$ When  $y_0 = c_0 = 30$ ,  $c_1 = -\frac{11}{10}(30) + \frac{231}{5} = 13.2 = y_1$ 

We can conclude that from Y to  $P^*$ , we invest 15  $c_0$  and reap 36.3  $c_1$  beceause

 $y_0 - p_0^* = 30 - 15 = 15$  during time  $c_0$ 

 $p_1^* - y_1 = 49.5 - 13.2 = 36.3$  during time  $c_1$ 

Additionally, from  $P^*$  to  $C^*$ , we borrow  $9c_0$  and repay  $9.9c_1$  since

 $c_0^* - p_0^* = 24 - 15 = 9$  in time  $c_0$ 

 $p_1^* - c_1^* = 49.5 - 39.6 = 9.9$  in time  $c_1$