EC1340-Fall 2019 Problem Set 10 solutions

(Updated 25 September 2019)

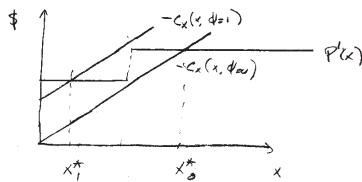
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$$C(x, \psi) = 10 - \psi - \frac{1}{2}x^{2} \qquad \psi = \begin{cases} 0 & \frac{1}{2} \\ 0 & \frac{1}{2} \end{cases}$$

$$D(x) = -\psi - x \qquad \psi = \begin{cases} 0 & \frac{1}{2} \\ 0 & \frac{1}{2} \end{cases}$$

$$D(x) = Sx + p_{MAx}(x-R, 0)$$

TO FIND FIRM BEHAVIOR, EQUATE P'(x) = -Cx;
AND FIND OF MAR FIRM CHOIR GRAPHICALY.



MB: Lets of other ways to DRAW P(a) DEPENDING THEN X'S SUKS ON PROMISES.

$$P'(x^*) = -C_x(x^*, \psi_{=0})$$

$$\Rightarrow S+p = X_0^*$$

$$X^*$$
, sizes
$$P'(x^*) = -C_X(x^*, \psi = 1)$$

$$S = 1 + X^*$$

$$= X^* = S - 1$$

1.

[b]
$$D(x) = \frac{1}{10}x + \frac{1}{4}x^{2}$$

= $D(x) = \frac{11}{10} + \frac{1}{2}x$

TO FIND PLANNING OPTIMUM IN CACH STATE,
SOLUE MINI DOX)+ C(x, b)

$$= \int_{X}^{\infty} \nabla(x) dx - C_{x}(x, d)$$

$$x^{**}$$
, solves $\frac{1}{10} + \frac{1}{2}x^{**} = 1 + x^{**}$
 x^{**}
 x^{**}

$$x^{**} = x^{*}$$
 $x^{**} = x^{*}$
 $x^{*} = x^{*}$