(0.9L) (4.0 mod/2) = 3.6 mml (44)

(.1 L) ( 8.0 mm/L) = 0.8 mml (..)

(3.6 mm) + (0.8 mm) = 4.4 mm) (0)

4.4 mmol = 4.4 nmol/L (v:)

$$C_{1} = Q_{2}(1 - \frac{1}{2}) + \gamma(\frac{1}{2}) = (4.0)(1 - \frac{1}{1.0}) + (8)(\frac{1}{2})$$

$$= (4.0)(.9) + .$$

$$= 4.4 \text{ man}/L$$

Yes, they agree!

$$C_1 = (9)(1 - \frac{0.2}{10}) + (1)(\frac{0.2}{10})$$
  
= (9)(0.98) + 0.02  
= 8.84 mm/L They agree!

$$\frac{2}{8/8} = \frac{C_{\chi} \cdot (1 - \frac{1}{1})}{4} + \frac{8}{8} \cdot (0.1) = \frac{C_{\chi} \cdot (0.9) + 0.8}{42}$$

$$\frac{8}{8} = \frac{C_{\chi} \cdot (1 - \frac{1}{1})}{42} + \frac{8}{42} \cdot (0.9) + 0.8$$

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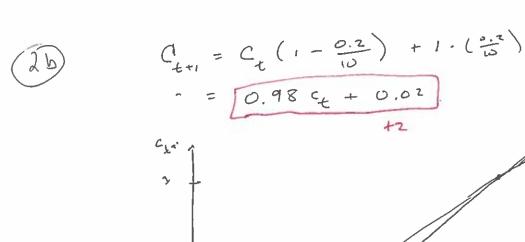
$$\frac{8}{8} = \frac{C_{\chi} \cdot (0.9) + 0.8}{42} + \frac{1}{42} \cdot (0.9) + 0.8$$

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f) for cobueb startage at right place.

\* The graphs probably want bak great; these sipdating func's once hard fo distinguish from the diagnal.



A very hard

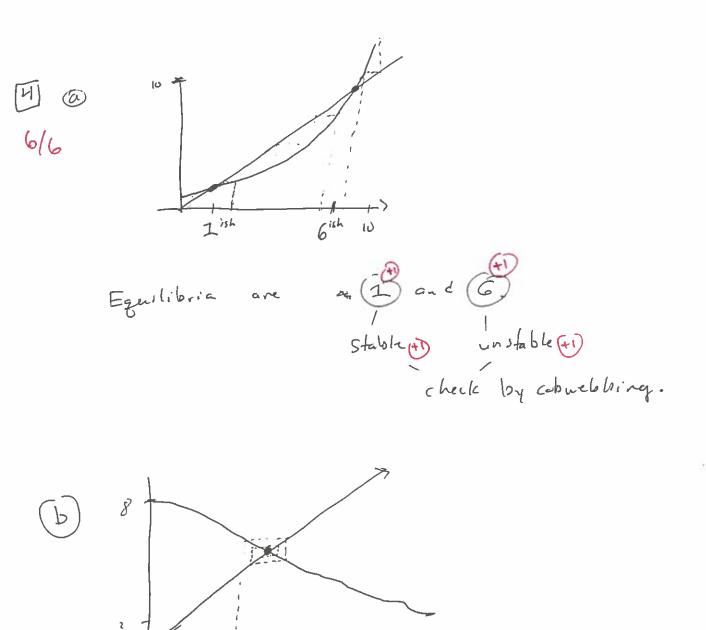
to distinguish

these lines,

the for having a cobrebbing should look look like this.

+1 for graphry updaty

func. and diagnal



5 ish

Equilibrium is [x=5.]

This is [stable] because solutions now x=5

a approach the agentubrium.

8

(b) 
$$\hat{V}_{t} = 0.6 \cdot 30 \text{ mV} = 18 \text{ mV}$$

Since  $18 \text{ mV} \neq 20 \text{ mV}$ , the heart will book.

(i)  $\hat{V}_{t}$ 
 $\hat{V}_{t}$ 

© 
$$\hat{V}_t = 0.7.30 \text{ mV} = 21 \text{ mV}$$
  
since  $21 \text{ mV} \approx 20 \text{ mV}$ , the heart will not beat,  
and  $\hat{V}_t = \hat{V}_t = 21 \text{ mV}$ .

(d) 
$$\hat{V}_{k} = 0.8 \times 30 = 24 \text{ mV}_{40}$$
  
Since  $24 \text{ nu} > 20 \text{ nu}$ , the heart will not beat.

and  $V_{km} = \hat{V}_{k} = 24 \text{ mV}$ .

6/6

(b) 
$$f(x) = \frac{4x-3}{2x-1}$$

Makes sense;

Doesn't make sun, can't have 150% of pop. bery human.

- The model won't make sense once 50% or more of the total population become Zombizs, because of the next Step there are no humans left. (+1)
- d) You can see in the above by diagram that solutions that fend to a value of Pt 20.5 will jump to a number bigger than I, which means the model breaks down.