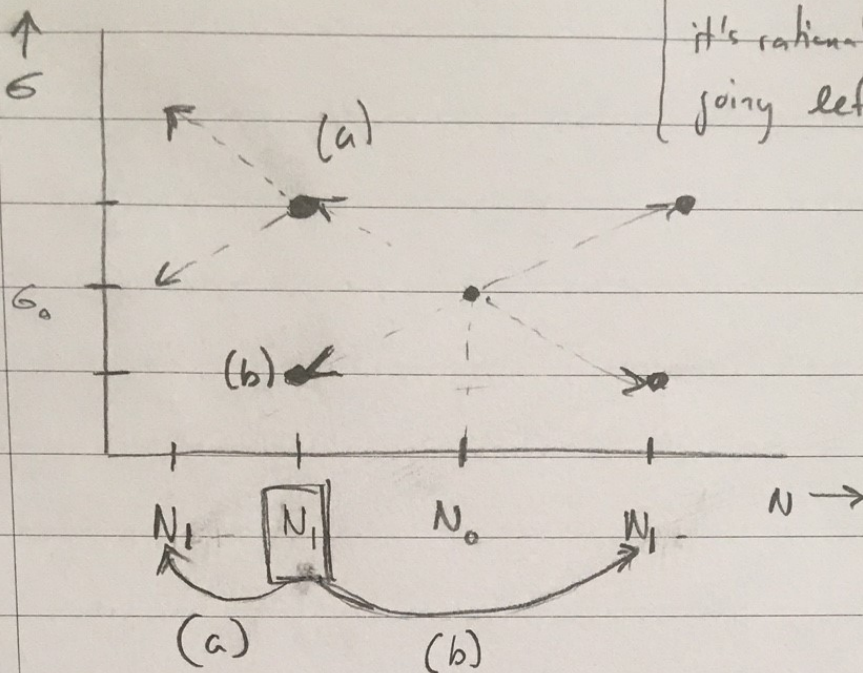


9/22/2018

Charles Davi

(It's computationally cheaper to move to the left, so it's rational to begin by going left.)



$$N_0 = \log\left(\frac{n_2 + n_c}{2}\right);$$

$$\alpha \in (0, 1);$$

$$N_1 = (1 - \alpha)N_0;$$

(a) if ($\sigma(N_1) > \sigma(N_0)$) {
 while ($\sigma(N_1) > \sigma(N_0)$) {
 ~~$N_0 = N_1;$~~
 $N_0 = -N_1;$
 $N_1 = N_1 = (1 - \alpha)N_0;$
 }
 return (N_0);

(b) else {
 ~~$N_1 = (1 + \alpha)N_0;$~~
 $N_1 = (1 + \alpha)N_0;$
 while ($\sigma(N_1) > \sigma(N_0)$) {
 $N_0 = N_1;$
 $N_1 = (1 + \alpha)N_0;$
 }
 return (N_0);