

HW#4

Problem #1

$$w_7 = w_6 \frac{N_6}{N_7} = w_5 \frac{N_6}{N_7} = w_4 \frac{N_4}{N_5} \frac{N_6}{N_7} = w_3 \frac{N_4}{N_5} \frac{N_6}{N_7} = w_2 \frac{N_2}{N_3} \frac{N_4}{N_5} \frac{N_6}{N_7}$$
$$w_7 = 600 \frac{20}{40} \frac{8}{17} \frac{20}{60} = 47.1$$

Problem #2

$$W_6=0, W_a=W_4$$

$$w_{2/4} = -w_{3/4} \frac{N_3}{N_2} = -w_{5/4} \frac{N_3}{N_2} = -w_{6/4} \frac{N_6}{N_5} \frac{N_3}{N_2}$$
$$w_2 - w_4 = -(0 - w_4) \frac{64}{24} \frac{18}{22}$$
$$\frac{w_4}{w_2} = \frac{11}{35}$$

Problem #3 – already discussed in class