

# MthSc 985: Topics in Discrete Mathematical Biology (Fall 2011)

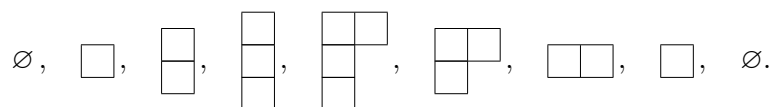
## Quiz 4 (20 points)

**NAME:**

**Instructions:** Answer each of the following questions completely. If something is unclear, or if you have any questions, then please ask. Good luck!

Recall the map  $\psi: \{\text{length-}n \text{ *tableaux}\} \rightarrow \{\text{partial matchings over } [n]\}$ .

1. (10 points) Let  $(\mu^i)_{i=0}^n$  be the following \*-tableau:



Compute  $\psi((\mu^i)_{i=0}^n)$ .

2. (10 points) Compute  $\psi^{-1}(G_n)$ , where  $G_n$  is the following arc diagram:

