Solutions to Attendance Quiz \# 21 for Dr. Z.'s Number Theory Course for Nov. 18, 2013

1. For the following partition $\lambda$, (i) Draw the Ferrers graph (ii) Find the conjugate partition $\lambda^{\prime}$ $\lambda=(7,6,5,4,3,2,1,1,1)$

Sol. to 1: (i)

(ii) $(9,6,5,4,3,2,1)$
2. Write the following partitions in exponent notation. First the short version, then the long version (with zero exponents) $\lambda=(7,5,3,3,3,1,1,1,1,1)$

Sol. to 2:

$$
\begin{gathered}
1^{5} 3^{3} 5^{1} 7^{1} \\
1^{5} 2^{0} 3^{3} 4^{0} 5^{1} 6^{0} 7^{1}
\end{gathered}
$$

