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

1. For the following partition λ , (i) Draw the Ferrers graph (ii) Find the conjugate partition λ'

$$\lambda = (7, 6, 5, 4, 3, 2, 1, 1, 1)$$

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:

$$1^5 \, 3^3 \, 5^1 \, 7^1$$
 .

$$1^5 \, 2^0 \, 3^3 \, 4^0 \, 5^1 \, 6^0 \, 7^1$$
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