Quiz 9: May 26, 2016

Left Neighbor:	Right Neighbor:
Name:	Student ID:
Section TA:	

This is a closed book quiz

- 1. (3 points) What is the coefficient of  $x^{11}y^{15}$  in  $(2x-y)^{26}$ ?
- 2. (7 points) Prove the Binomial Theorem using Induction. That is, prove that

$$(x+y)^n = \sum_{k=0}^n \binom{n}{k} x^k y^{n-k}.$$

Induction Hypothesis (1 point):

Base Case(s) (2 points):

Inductive Step (4 points):