

## MAC1140 SEC29 HW 11-30-2007 11.5

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Due: 12-03-2007

Full Name: \_\_\_\_\_ Sec#: \_\_\_\_\_ Extra Credit Attempted? \_\_\_\_\_

1.

[11.5.1aPT] Find the coefficient of  $x^6$  in the expansion of  $(x - 2)^{11}$

- $-\frac{11!}{6!}2^5$
- $\frac{11!}{5!}2^5$
- $\frac{10!}{6!4!}2^{11}$
- $\frac{11!}{6!5!}2^5$
- $-\frac{11!}{6!5!}2^5$

2.

[11.5.2aPT] Evaluate the binary coefficient  $\binom{8}{6}$

- 28
- 56
- 0
- 8
- 1

3.

[11.5.1aPT] Find the coefficient of  $x^5$  in the expansion of  $(3 - x)^{11}$

- $\frac{11!}{6!}3^6$
- $-\frac{11!}{5!}3^6$
- $-\frac{11!}{5!6!}3^6$
- $\frac{11!}{5!6!}3^6$
- $\frac{10!}{5!5!}3^{11}$

4.

[11.5.2aPT] Evaluate the binary coefficient  $\binom{10}{10}$

- 0
- 10
- 1
- 2
- 3