Secondary Math III
Pascal's Triangle
Assignment 4.5

Name: _____
Period: ____

Use <u>Pascal's</u> <u>Triangle</u> to expand each binomial.

1. $(a+b)^3$

2. $(a+b)^5$

3. $(a+b)^4$

Use <u>Pascal's</u> <u>Triangle</u> and <u>Substitution</u> to expand each binomial.

4. $(x-2)^4$

5. $(x+3y)^5$

6. $(2x-y)^3$

Use a calculator to find the following.

7. ${}_9C_6$ 8. ${}_{20}C_{15}$ 9. $\binom{6}{3}$ 10. $\binom{10}{7}$ 11. ${}_{500}C_{498}$

Use the *Binomial Theorem* to expand each binomial.

12. $(a+b)^3$

13. $(2x-3)^4$

Review Unit 2:

14 – 15: Describe what happens to the graph of $g(x)$ if:

14. $g(x) = f(x) + 8$

15. $g(x) = f(x-3)$