

Name: \_\_\_\_\_

### SM3E 1.2: Pascal's Triangle & Binomial Thm.

Problems: Expand the binomial.

1)  $(a + b)^3$

4)  $(x - 2)^6$

2)  $(a + b)^5$

5)  $(2x - 1)^5$

3)  $(x + 3)^4$

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

Find the given term in the binomial expansion:

7)  $x^6$  term;  $(x - 1)^9$

9)  $x^6y^3$  term;  $(x + y)^9$

8)  $x^4$  term;  $(2x + 3)^7$

10)  $x^{11}y^2$  term;  $(x - 2y)^{13}$