

Topic: Sequences and Series
Binomial Theorem
Homework

Name: _____
Date: _____

Evaluate each expression.

1. $5!$

2. $\frac{7!}{3!(7-3)!}$

3. $\frac{10!}{7!3!}$

Use Pascal's Triangle to expand each binomial.

4. $(a+b)^3$

5. $(a+3b)^4$

6. $(x-3)^3$

7. $(2x+3y)^3$

8. $(4-x)^3$

9. $(1+i)^4$