

Pascal's Triangle

Name: _____

1) Draw Pascal's Triangle up to the 10th power row.

Expand completely.

2) $(x + 3)^4$

3) $(x - 1)^5$

4) $(2x + y)^8$

5) The first four terms of a polynomial are $P(x) = x^6 - 18x^5 + 135x^4 - 540x^3$. If $(x + b)^6$ is expanded to create $P(x)$, what is the value of b ?