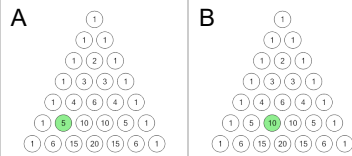


Binomial Theorem - Polynomial with Variable, Theorem and Power to Triangle Value

1

Using Pascal's triangle, find the binomial coefficient for the term containing r^4 in the expansion of this expression. Select the coefficient (the triangle entry), not the full term.

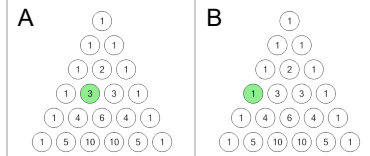
$$(r + q)^5 = \sum_{k=0}^5 \binom{5}{k} r^{5-k} q^k$$



2

Using Pascal's triangle, find the binomial coefficient for the term containing y^2 in the expansion of this expression. Select the coefficient (the triangle entry), not the full term.

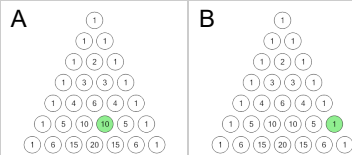
$$(y + w)^3 = \sum_{k=0}^3 \binom{3}{k} y^{3-k} w^k$$



3

Using Pascal's triangle, find the binomial coefficient for the term containing x^1 in the expansion of this expression. Select the coefficient (the triangle entry), not the full term.

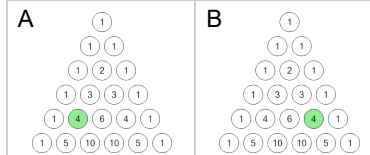
$$(x + y)^5 = \sum_{k=0}^5 \binom{5}{k} x^{5-k} y^k$$



4

Using Pascal's triangle, find the binomial coefficient for the term containing m^2 in the expansion of this expression. Select the coefficient (the triangle entry), not the full term.

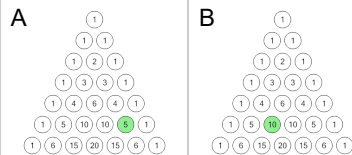
$$(m + t)^4 = \sum_{k=0}^4 \binom{4}{k} m^{4-k} t^k$$



5

Using Pascal's triangle, find the binomial coefficient for the term containing p^2 in the expansion of this expression. Select the coefficient (the triangle entry), not the full term.

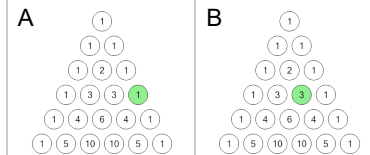
$$(p + y)^5 = \sum_{k=0}^5 \binom{5}{k} p^{5-k} y^k$$



6

Using Pascal's triangle, find the binomial coefficient for the term containing x^1 in the expansion of this expression. Select the coefficient (the triangle entry), not the full term.

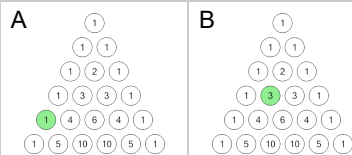
$$(x + t)^3 = \sum_{k=0}^3 \binom{3}{k} x^{3-k} t^k$$



7

Using Pascal's triangle, find the binomial coefficient for the term containing p^3 in the expansion of this expression. Select the coefficient (the triangle entry), not the full term.

$$(p + m)^4 = \sum_{k=0}^4 \binom{4}{k} p^{4-k} m^k$$



8

Using Pascal's triangle, find the binomial coefficient for the term containing n^3 in the expansion of this expression. Select the coefficient (the triangle entry), not the full term.

$$(n + w)^5 = \sum_{k=0}^5 \binom{5}{k} n^{5-k} w^k$$

