Name: _____

Quiz 11 ♠

MATH 211
February 23, 2023

1. Expand and simplify: $(1+a)^5 =$

2. Use the binomial theorem to show why $3^n = 2^0\binom{n}{0} + 2^1\binom{n}{1} + 2^2\binom{n}{2} + 2^3\binom{n}{3} + \cdots + 2^n\binom{n}{n}$

Name: _____

Quiz 11 ♢

MATH 211
February 23, 2023

1. Expand and simplify: $(a+2)^4 =$

2. Use the binomial theorem to show why $4^n = 3^0\binom{n}{0} + 3^1\binom{n}{1} + 3^2\binom{n}{2} + 3^3\binom{n}{3} + \cdots + 3^n\binom{n}{n}$

Name: _____

Quiz 11 ♣

MATH 211
February 23, 2023

1. Expand and simplify: $(1+a)^6 =$

2. Use the binomial theorem to show why $2^n = \binom{n}{0} + \binom{n}{1} + \binom{n}{2} + \binom{n}{3} + \cdots + \binom{n}{n}$
.

Name: _____

Quiz 11 ♡

MATH 211
February 23, 2023

1. Expand and simplify: $(a+2)^4 =$

2. Use the binomial theorem to show why $3^n = 2^0\binom{n}{0} + 2^1\binom{n}{1} + 2^2\binom{n}{2} + 2^3\binom{n}{3} + \cdots + 2^n\binom{n}{n}$