Quiz 4 (individual quiz)

Write down your problem solving process and how you get to the solution. No points is given without explanation. You don’t need to calculate out the final number.

Name:

ID #:

Expand expressions using binomial theorem
a. \((a+b)^6\)

b. \((x-y)^5\)

Find the coefficient of the given term
a. \(a^4b^8\) in \((a-2b)^{12}\)

Express the sum in closed form (without using a summation symbol)
\[\sum_{k=0}^{n} \binom{n}{k} 3^k\]