

Quiz #9

Points: There are three problems on this quiz; each is worth 5 points.

1. The row of Pascal's triangle that corresponds to $n = 8$ is as follows:

1 8 28 56 70 56 28 8 1.

What is the row that corresponds to $n = 9$?

Answer:

2. Calculate the coefficient of a^5b^7 when $(a - 2b)^{12}$ is expanded by the binomial theorem. (You do not need to simplify your answer.)

Answer:

Extra Credit: A student council consists of 8 students. Two council members have the same major and are not permitted to serve together on a committee. How many ways can a committee of 5 be selected from the membership of the council? Show your work and simplify your answer.

Answer: