

Quiz 5

Name:

Instructions: Show your work and explain every step.

- (1) (6 points) Find the coefficient of x^8y^5 in the expansion of $(2x - 3y)^{13}$.

- (2) Let $A = \begin{bmatrix} 2 & 3 & 4 \\ 5 & 6 & 7 \\ 1 & 8 & 0 \end{bmatrix}$. Find
- (a) (5 points) A^2 .

- (b) (3 points) A^T .

- (c) (6 points) $\det(A)$.