Score:

Name: Vivia Seriod (circle one): 1 2 3 4 5 6
Team (circle one): a b c d e f

SM 261 – Matrix Algebra – Quiz 19 Section 4.6 – Rank

1. If a 3×8 matrix A has rank 3, find dim Nul A, dim Row A, and rank A^{T} .

Rank A + Dim Nul A = Columns of A

3 + 5 = 5

dim Row A = Ilank A = 3

Rank AT 5 Rank A = 3

2. If the null space of a 5×6 matrix A is 4-dimensional, what is the dimension of the row space of A.

Rank A + Dim Null A = H columns A

The columns A

T

Dim Col A = Dim Row A