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MATH230 Discussion Quiz 5

20 minutes, 10 points total, closed note, no calculators

1: Parametrize all solutions for the system $\{w+x+y+z=16, -2w+y+z=8\}$. Then given the additional equation w+x=2, eliminate one of the parameters and reparametrize. (4 points)

2: Find matrices A, B such AB, BA are defined and AB = $0 \neq BA$, or show why this task is impossible. (3 points)

3: Mark the following true or false (1 point each)

(a): If XY and YX are defined for matrices X and Y, then XY and YX are square.

(b): If ABA is invertible, then A and B are both invertible

(c): Suppose B is invertible and A, B are known matrices. For the matrix equation AX = AB, the only solution for X is X = B.