Homework #3(Week 4) – MSCA 32010

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1. The missing components are 12,3,1.

2. N(C ) = N(A) ꓵ N(B)

3a. The reduced row form of this matrix is

3b. Since it has 2 pivots, this matrix is rank 2.

3c.

Bonus

Since B has a rank 1, then we can multiply it by the Identity matrix to so A1B has rank 1

Therefore,

A2 will be the zero vector, since A2B is a matrix with rank 0, it has no pivots

Therefore,