Linear Algebra
Exam 2
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1. For each set find out if it is linearly dependent/independent,
span or do not span R^n, a basis or not a basis of R^n.

    a. {(2,3,0), (1,4,0), (0,0,2)}
    b. {(1,2,3), (1,0,1), (2,4,6)}
    c. {(1,2,3), (1,0,1), (2,4,6), (3,2,5)}

2. Find a basis for the nullspace, rowspace, and columnspace of A.

$$\begin{matrix} 1 & 1 & 7 & 2 & 2 \\ 1 & -12 & -11 & -16 & 5 \\ 1 & -2 & 1 & -4 & 1 \end{matrix}$$