Let  $A = \begin{bmatrix} 3 & 0 & -1 \\ 15 & 4 & -4 \\ 0 & 4 & 1 \end{bmatrix}$  and B be another  $3 \times 3$  matrix. The determinant of B is 3.

a. (3 points) Compute the determinant of A.

**b.** (5 points) Find a basis for Null(A) (the null space of A).

c. (2 points) Describe Null(B).