Linear Algebra & Image Processing matlab case 1 Elementary Operations

```
function B = rowmultiple(A,i,k)
% rowmultiple
                     Given an mxn matrix A
%
              along with an integer i between 1 and m
%
              and a nonzero scalar k
%
              will generate a matrix B (or Ans when absent)
%
              that is the result of multiplying row i of A by k
B=A;
B(i,:) = k*A(i,:);
function B = rowswap(A,i,j)
% rowswap
                     Given an mxn matrix A and row numbers i and j
%
              between 1 and m, matrix B is produced (or Ans when absent)
              equal to A with rows i and j interchanged
%
B = A;
B(i,:) = A(j,:);
B(j,:) = A(i,:);
function B = rowcombine(A,i,j,k)
% rowcombine
                     Given an mxn matrix A,row numbers i,j and scaling factor k
%
              row number i times k is added to row i in matrix B (or Ans when absent)
B=A:
B(i,:) = A(i,:) + k*A(i,:);
function M=makeM
% function makeM creates an Augmented 3x4 test data matrix
M=[3 1 5 7;2 4 -1 0;5 7 3 1];
```