```
%Homework 4/12: Chemical Processing

%After rearranging the equation by hand, these are the coefficients of
 the
%variables mtops, mbottom, and x, respectively
A=[.2 .65 0; .35 .25 -100; .45 .1 100];
%And the constant value solution to each equation
B=[50; 0; 50];

%Use left division to solve for mtops, mbottom, and x
solution=A\B;

%Create table for solutions
names={'mtops'; 'mbottom'; 'x'}
answer=table(solution, 'RowNames', names)
```

names =

  3×1 cell array

    'mtops'
    'mbottom'
    'x'

answer =

                solution

                _____

    mtops   33.333
    mbottom   66.667
    x   0.28333

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