Your name: _____
(first) (last)

Define a matrix `C` in Matlab, and introduce the following augmented matrix of a linear system.

```
C =
   1  -1   0   0  -5
   0   1   2   0   7
   0   0   1  -3  -2
   0   0   0   2   4
```

Complete the Matlab codes with appropriate row operations, and fill in the blanks to show your result.

```
> C(4,:) = (1/2) * C(4,:)
C =
   1  -1   0   0  -5
   0   1   2   0   7
   0   0   1  -3  -2
```

```
> C(3,:) = C(3,:) + 3 * C(4,:)
C =
   1  -1   0   0  -5
   0   1   2   0   7
```

```
> C(2,:) =
C =
   1  -1   0   0  -5
   0   1   0   0  -1
```

```
>
C =
   0   1   0   0  -1
```

Thus, the solution of the system is given by

$(x_1, x_2, x_3, x_4) =$ _____.