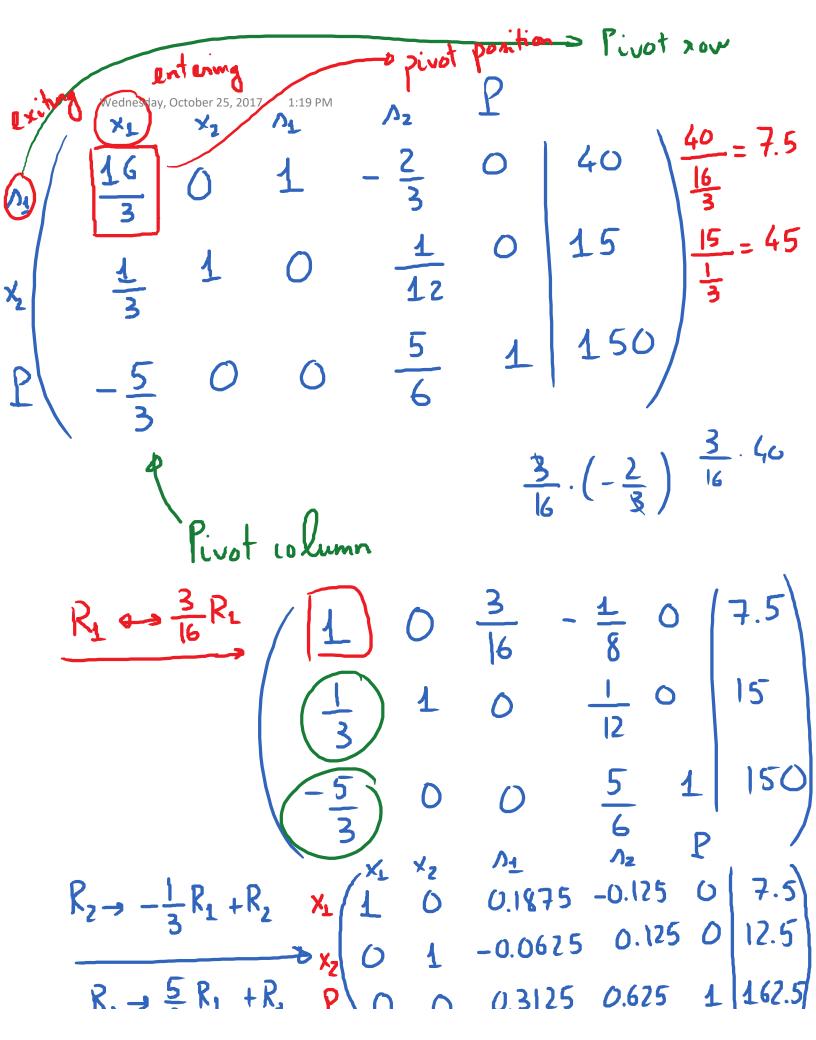
After the now operations: $\begin{pmatrix}
5.3333... & 0 & 1 & -0.666... & 0 & | 40 & | 15 & | \\
0.3333... & 1 & 0.0833... & 0 & | 15 & | \\
-1.666... & 0 & 0.833... & 1 & | 150 & | \\
1 & 0 & 1 & -\frac{2}{3} & 0 & | 40 & | \\
1 & 1 & 0 & \frac{1}{12} & 0 & | 15 & | \\
1 & 2 & 3 & 0 & 0 & 5 & 1 & | 150 & | \\
-\frac{5}{3} & 0 & 0 & \frac{5}{6} & 1 & | 150 & | \\
1 & 1 & 0 & \frac{1}{6} & 0 & | 150 & | \\
1 & 1 & 0 & \frac{1}{6} & 0 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & | 150 & |$

Step 5: If there are still negative numbers on the bottom now, repeat the process until there are no more negative #'s on the button now.



 $R_3 \rightarrow \frac{5}{3}R_1 + R_3 \quad P \quad O \quad O \quad 0.3125 \quad 0.625 \quad 1 \quad 162.5$

Step 6: Once we get no more negative in the bottom row, the right most column gives us the sprimal solution.

 $X_1 = 7.5$; $X_2 = 12.5$, P = 162.5.

Hw#8

Constraints:
$$2x_1 + 3x_2 + 2x_3 \leq 950$$

$$x_{1} + x_{2} + 2x_{3} \leq 750$$

$$x_1, x_2, x_3 \geqslant 0$$

$$2x_1 + 3x_2 + 2x_3 + 4$$
 = 950

$$x_1 + x_2 + 2x_3 + x_2 = 750$$

$$-7x_1 - 8x_2 - 10x_3 + P = 0$$

Wednesday, October 25, 2017