\$3.2

$$-\frac{7}{5}x + \frac{7}{5} = 0$$

$$-\frac{3}{5}x - \frac{3}{5}y + 2 = 0$$

$$x - \frac{3}{5}y - \frac{2}{5}z = 0$$

Solve If it is dependent, express your answer in terms of x, where y = y (x/ and * z= z(x)

$$-2x + 5y - 3z = 0$$

$$-3x - 2y + 5z = 0$$

$$5x - 3y - 2z = 0$$

$$-3 - 3z = 0$$

$$5x - 3y - 2z = 0$$

Reduced Row Echelon Form of this natrix is

Check: (x, x, x) is a solution to my original system? -2x + 5x - 3x = x(-2+5-3) = 0-3x -2x +5x = x (-3 -2+5)=0 5x - 3x - 2x = x(5 - 3 - 2) = 0E.g.: x - y + 7z = 4 = 5 [1 -1 7 ; 4] x - y + 8z = 3 [1 -1 8 ; 3] Express answer in terms of X. After Gauss-Jordan Elim. get Dependent $\begin{bmatrix} 1 & -1 & 0 & 1 & 1 \\ 0 & 0 & 1 & 1 \end{bmatrix}$ $= 7 \times -9 = 11$ = 2 = -1y = x - 11, G(x, x - 11, -1) answer Web Assign Web Assign Wants words Ia D, choose an x value, get a solution to the system (x is the independent variable) In & O, choose a y value, get a solution to the system (y is the independent variable).

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E.g. @ Airline purchases
                                         $200 mil
         A330 -300s 320 Pass
                                         $ 125 mil
                              250 Pass
          767 - 200 ERS
                                         $200 mil
                              275Pass
          787 -9s
to meet demand for 4,800 seats. The girline
bought twice as many 757s as 767s for atotal
cost of $3.1 billion or $3,100 million. How many of each did they buy?
     Let x = # 43305
          y=# 7675
          Z= # 787s
    4860 = 370x + 250y + 275 z
    3,100 = 200x + 125 xy + 200 =
       Z=Zy (=> = Zy - Z = 0
        \begin{bmatrix} 320 & 256 & 275 & 4800 \\ 200 & 175 & 200 & 3100 \\ 0 & 2 & -1 & 0 \end{bmatrix}
```