M10 - 9.4 - Line Up Elimination Notes

Solving a system of equations using elimination

$$2 y + 4x = 0$$

Identify equation # 1 Identify equation # 2

$$y = -6x + 2$$

$$+6x + 6x$$
 Algebra
$$y + 6x = 2$$

$$y + x = \#$$
 For Example

$$\begin{array}{ccc}
1 & y + 6x = 2 \\
2 & y + 4x = 0
\end{array}$$

$$\frac{(y+6x=2)}{-(y+4x=0)} \\ \frac{0y+2x=2}{}$$

$$2x = 2$$
$$\frac{2x}{2} = \frac{2}{2}$$

$$x = 1$$

$$y = -4$$

$$(1, -4)$$