Mathematics 10D

1.6 – Solving POI by Elimination

Mr. D. Hagen

$$7x + 10y = -19$$

+ $-6x - 10y = 12$
 $\lambda = -7$

Make sure that both egyachess
cere X + Y = ##

$$7(-7) + 10y = -19$$

$$10y = 30$$

$$y = 3$$

$$4x + 5y = -29$$

$$-(4x + 4y = -28)$$

$$y = -1$$

x:
$$4x + 5(-1) = -29$$

 $4x = 29$
 $x = 6$

$$\begin{array}{c}
2(10x - 2y = -4) \\
-20x + 5y = 15
\end{array}$$

$$20x - 4y = -8$$

$$+ -20x + 5y = 15$$

$$y = 7$$

$$x: 10x - 2(7) = -4^{114}$$

$$10x = 10$$

$$x = 1$$

$$5(-6x + 8y = -2)$$

 $8(-9x + 5y = -17)$

$$-30x + 40y = -10$$

$$-(-72x + 40y = -136)$$

$$-42x = 126$$

$$x = 3$$

$$y: -6(3) + 8y = -3^{+18}$$

$$8y = 16$$

$$y = 2$$

$$22 = -2x + 10y$$

$$-27y + 63 + 9x = 0$$

$$9(2x - 10y = -2)$$

$$2(9x - 27) = -65$$

$$18x - 90y = -198$$

$$-(18x - 59y = -126)$$

$$-36y = -72$$

$$-56$$

$$y = 2$$

$$x: \overrightarrow{\partial}_{\lambda} = -\lambda_{x} + io(\lambda)$$

$$\frac{\lambda}{2} = -\lambda_{x}$$

$$\frac{\lambda}{2} = -\lambda_{x}$$

$$-1 = \lambda$$

$$\frac{\lambda}{2} = -\lambda_{x} + io(\lambda)$$