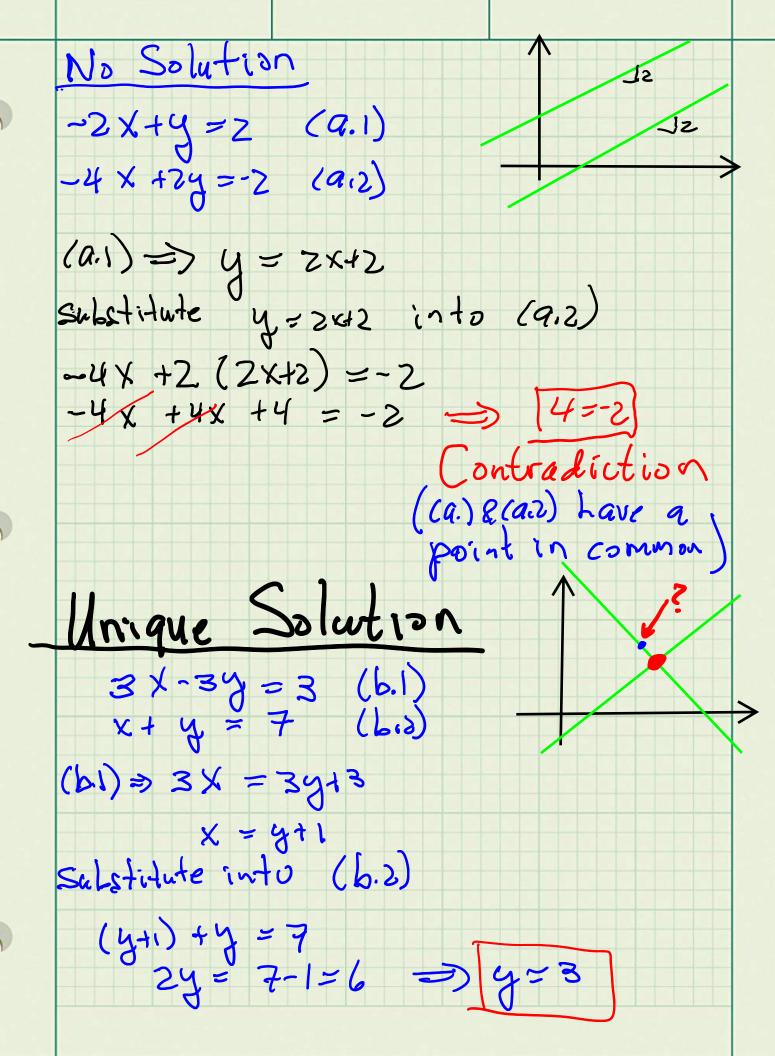
ROB 101 31 August 2020 Review $a \neq 0$ quadratic equation • $ax^2+bx+c=0$ $\Delta = b^2 - 4ac$ discriminant · D>0 \Rightarrow 2 dictinct real roots (solutions) · D=0 => repeated root · A < 0 \ => 2 complex roots $x^* = -b \pm \sqrt{b^2 - 4ac}$ 2a Today · Masks are mandatory · Course organization · Operational agreement
· Grading
· Convas Course page
· Illumidesk · Why ROB IOL? Systems of Linear Equations — What can happen?

Can you help me with ...? Is a sign of respect, NOT WEAKNESS Operational Agreement

- Strive for intellectual humility.
- Hold your opinions lightly and with humility.
- Let go of personal anecdotal evidence and look at broader group-level patterns.
- Notice your own defensive reactions.
- Recognize how your own social positionality (e.g., race, class, gender, sexuality, ability) informs your perspectives.
- Differentiate between safety and comfort. Accept discomfort as necessary for growth.
- Identify where your learning edge is and push it.

Systems of Linear Equations Typically means more than one equation. K-y-2+W = 1 A system of linear equations can have; . No solutions
. Unique solution (means one Roaly one solution)
. Infinite number of Solutions Cannot have 2 and only 2 colutions.



Salistitute
$$y=3$$
 into (6.2)
 $x+(3)=7 \implies x=4$

Answer $\begin{bmatrix} x\\y \end{bmatrix} = \begin{bmatrix} 4\\3 \end{bmatrix}$

Infinity of Solutions

 $-x-2y=-2$ (Col)
 $3x-6y=-6$ (Col)

 $x+2=2y$
 $\{y=\frac{1}{2}x+1\}$, $x\in\mathbb{R}$ all the Solutions