Cornell Notes	Topic/Objective: Solving Equations with Simple Elimination	Name:
AVID Decades of College Dreams		Class/Period:
		Date:

Essential Question:

Questions:	Notes:

To solve a system of equations algebraically...

1) Eliminate 1 variable
2) Solve for the other
3) Substitute + Solve for the 1st

ex) $\begin{cases} 2x - y = 7 \\ 3x + y = 3 \end{cases}$

$\dfrac{5x}{5} = \dfrac{10}{5}$

$x = 2$

← Added the equations b/c y's cancel

← Solve for x.

$3x + y = 3$

$3(2) + y = 3$

$6 + y = 3$

$-6 \quad -6$

$y = -3$

Plug back in and solve for y

$x = 2, y = -3.$

$(2, -3)$

Intersection!

Summary:

Questions:

Notes:

eliminate!

ex) $\begin{cases} 2x - 3y = 17 \\ -2x - y = 3 \end{cases}$

$$\frac{-4y}{-4} = \frac{20}{-4}$$

$$y = -5$$

$$-2x - y = 3$$

$$-2x - (-5) = 3$$
$$-2x + 5 = 3$$
$$\underline{-5 \quad -5}$$
$$-2x = -2$$
$$\frac{-2x}{-2} = \frac{-2}{-2}$$
$$x = 1$$

Summary: