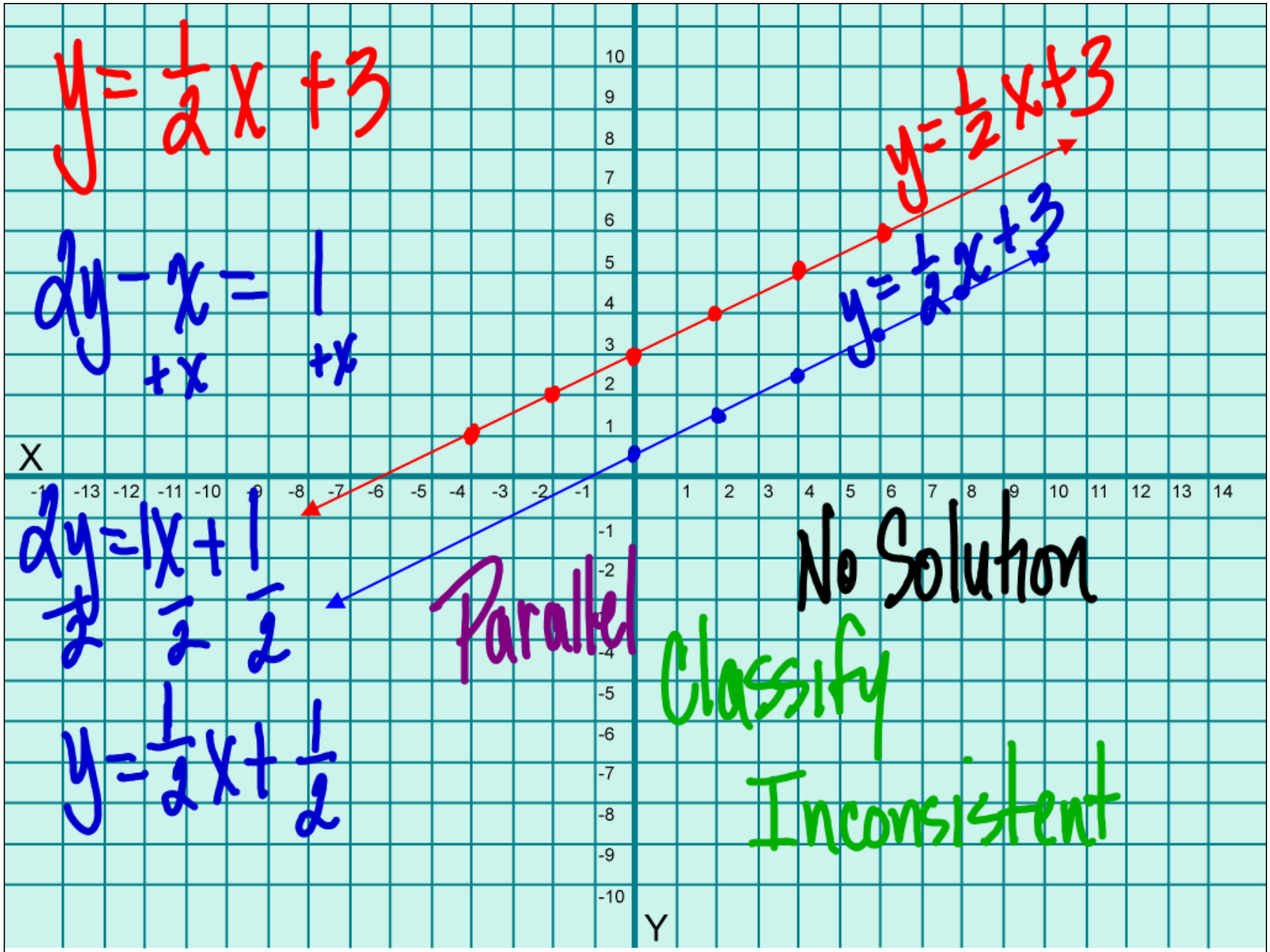
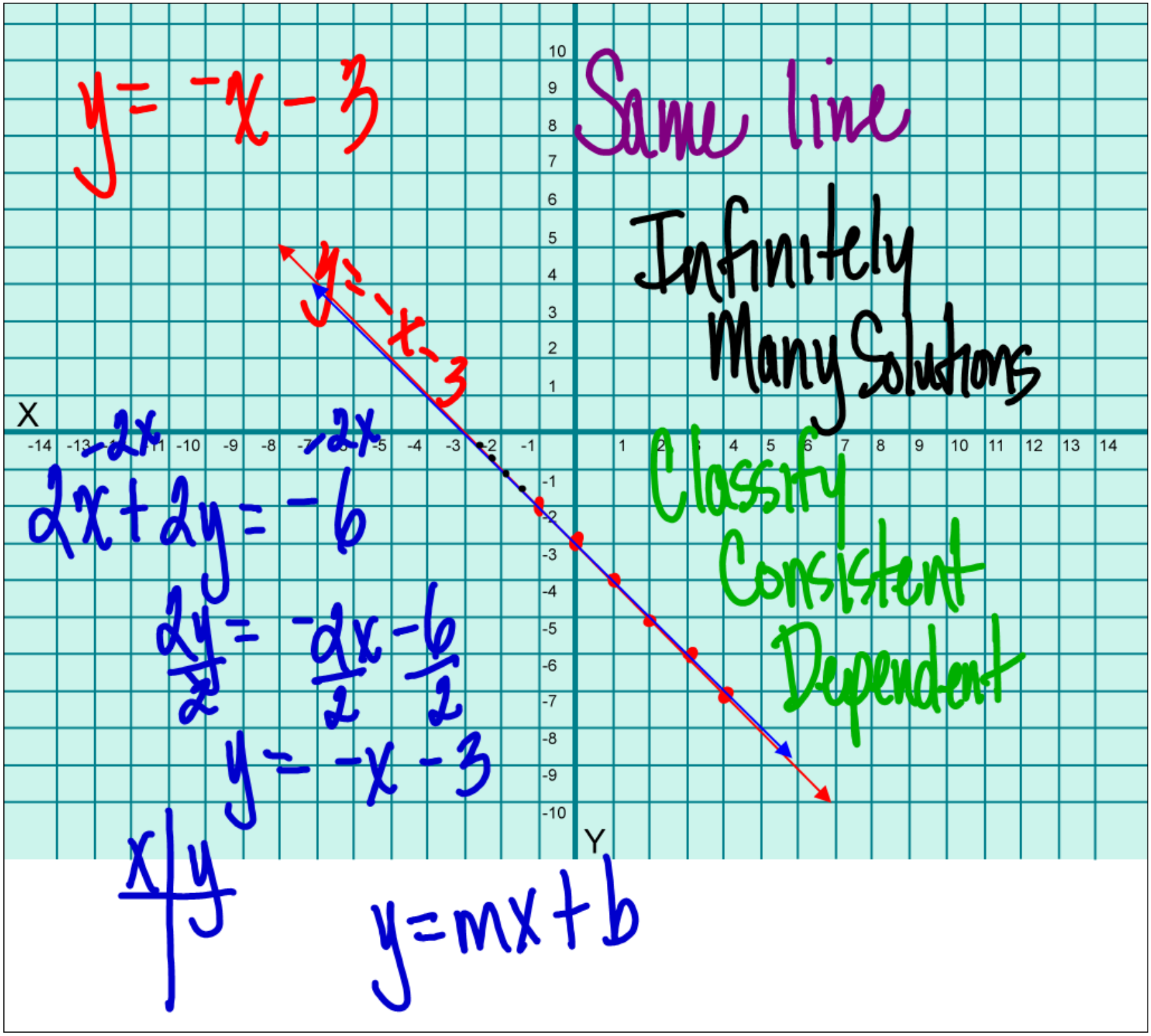

$y = \frac{1}{2}x + 3$
$2y - x = 1$
$+x \quad +x$
$2y = 1x + 1$
$\frac{2}{2} \quad \frac{2}{2}$
$y = \frac{1}{2}x + \frac{1}{2}$
$y = \frac{1}{2}x + 3$
$y = \frac{1}{2}x + 3$
Parallel
No Solution
Classify
Inconsistent
X
Y


y = -x - 3
Same line
Infinitely Many Solutions
y = -x - 3
X
Y
-2x
-2x
2x + 2y = -6
2y/2 = -2x/2 - 6/2
y = -x - 3
Classify
Consistent
Dependent
x | y
y = mx + b

$$x + y = 7$$
$$-x + y = 5$$
$$0 \neq 2$$

Variables Zero out

$y = -x + 7$

$y = -x + 5$

Parallel

No Solution

Classify Inconsistent

2. $x + 3y = 4$

$2x + 6y = 8$

$$-2x - 6y = -8$$
$$+\ 2x + 6y = 8$$
$$0 = 0$$

Variables Zero out

Test

Same line

Classify Consistent Dependent

Consistent

Inconsistent

Parallel
No Solution

Independent

1 solution
Intersect

Dependent

Infinitely
Many Solutions
Same line

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Ordered Pair	0 = 0	0 ≠ 5
(,)	Same Equation	Parallel
Consistent	Infinitely Many	No Solution
Independent	Solutions	Inconsistent
	Consistent	
	Dependent	