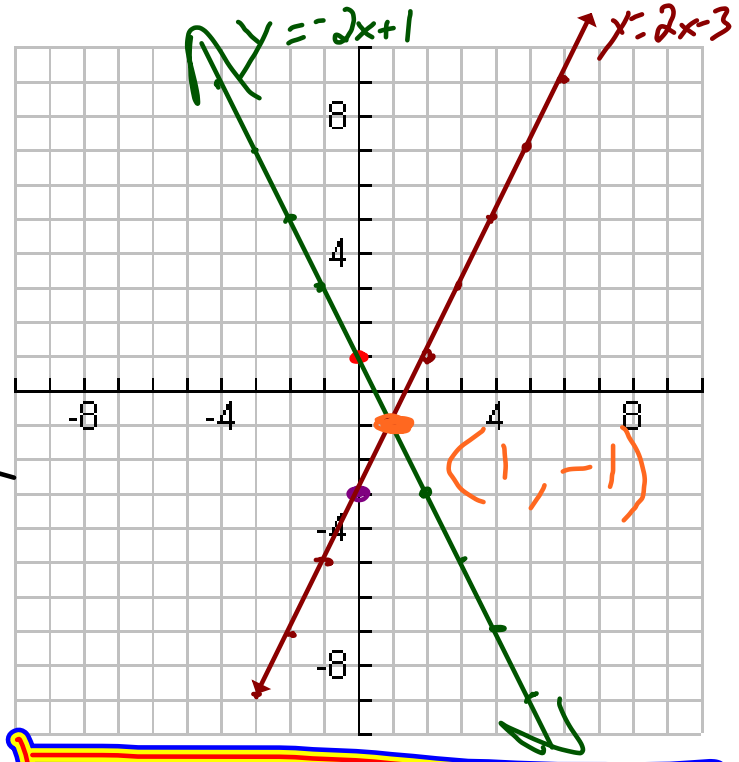
① $y = 2x - 3$

$-y = 2x - 1$

$\frac{-y}{-1} = \frac{2x}{-1} - \frac{1}{-1}$

$y = -2x + 1$



$y = 2x - 3$

$(-1) \stackrel{?}{=} 2(1) - 3$

$-1 \stackrel{?}{=} 2 - 3$

$-1 = -1$ ✓

$-y = 2x - 1$

$-(-1) \stackrel{?}{=} 2(1) - 1$

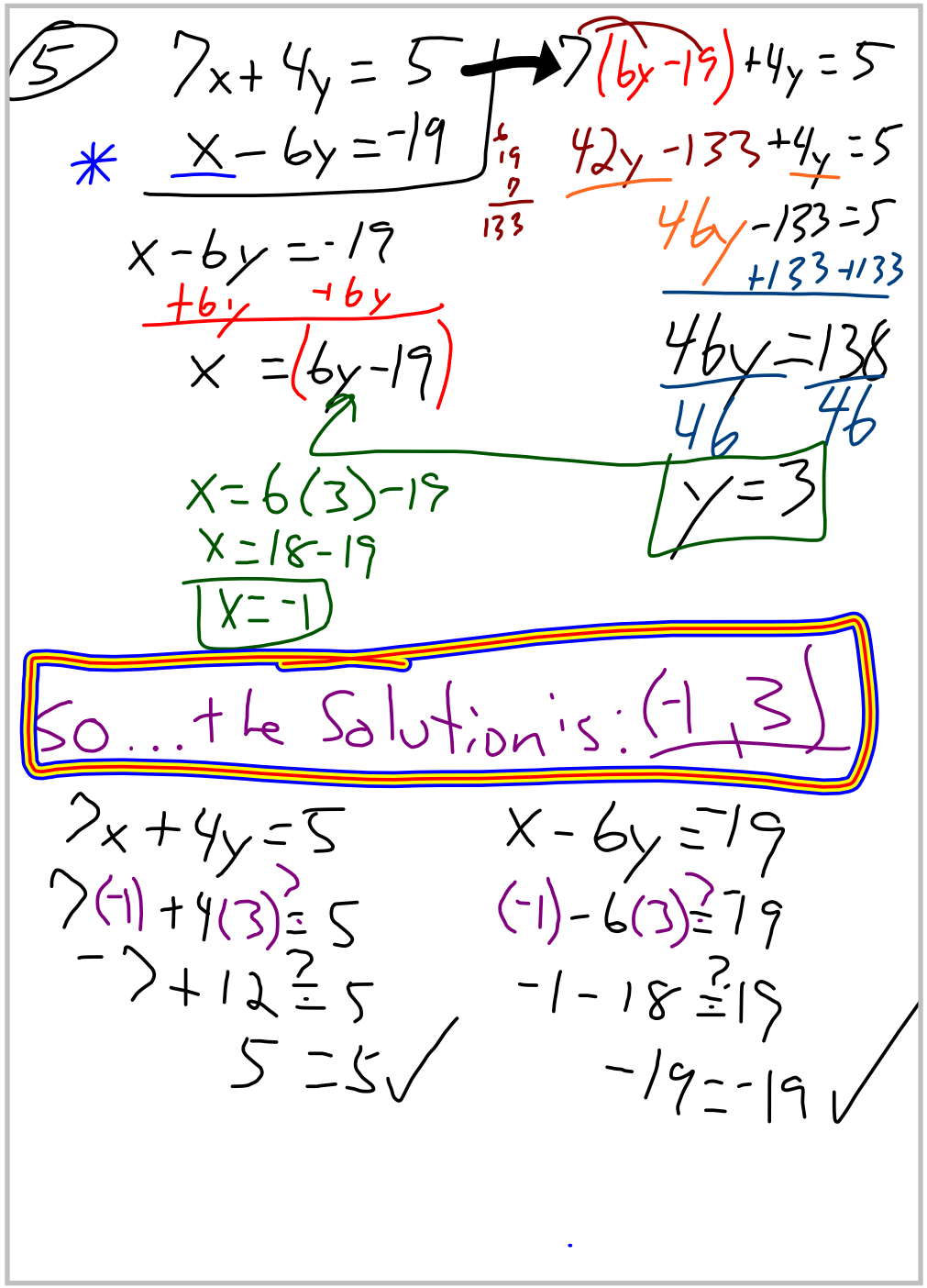
$1 \stackrel{?}{=} 2 - 1$

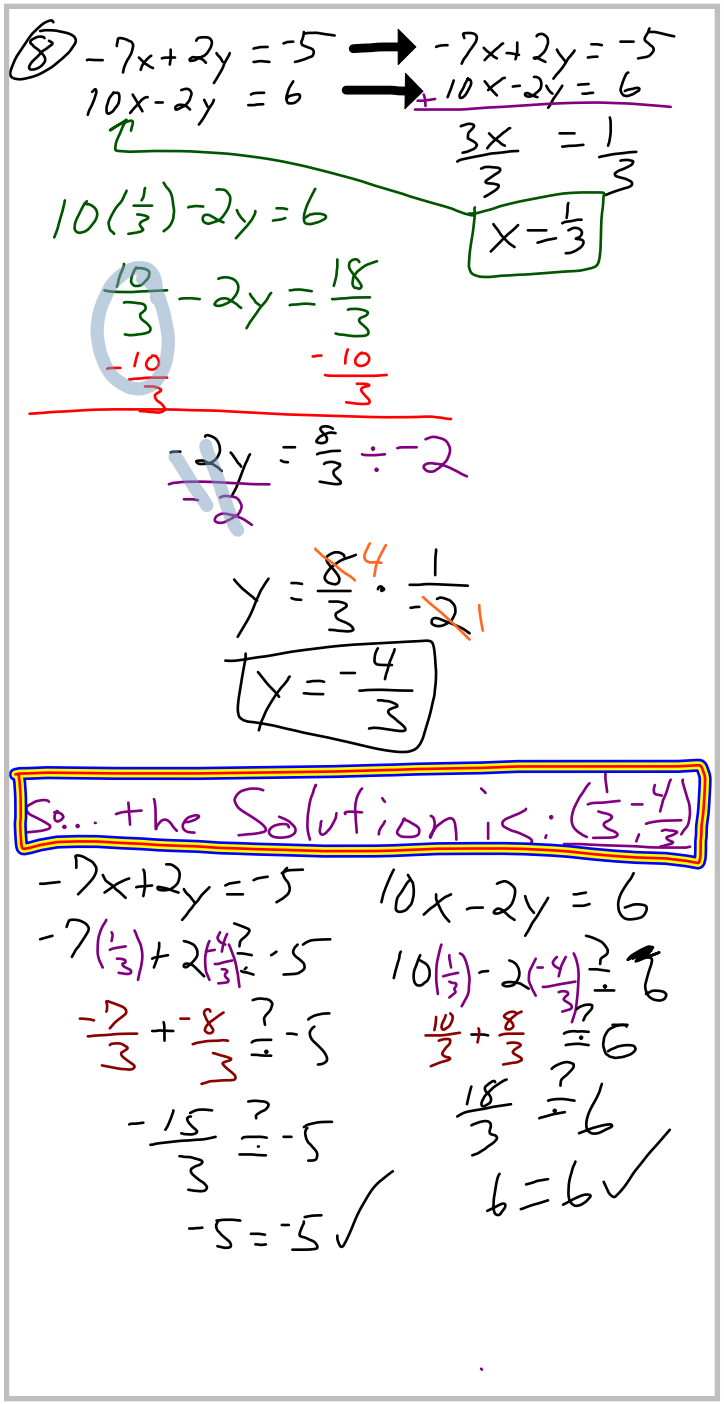
$1 = 1$ ✓

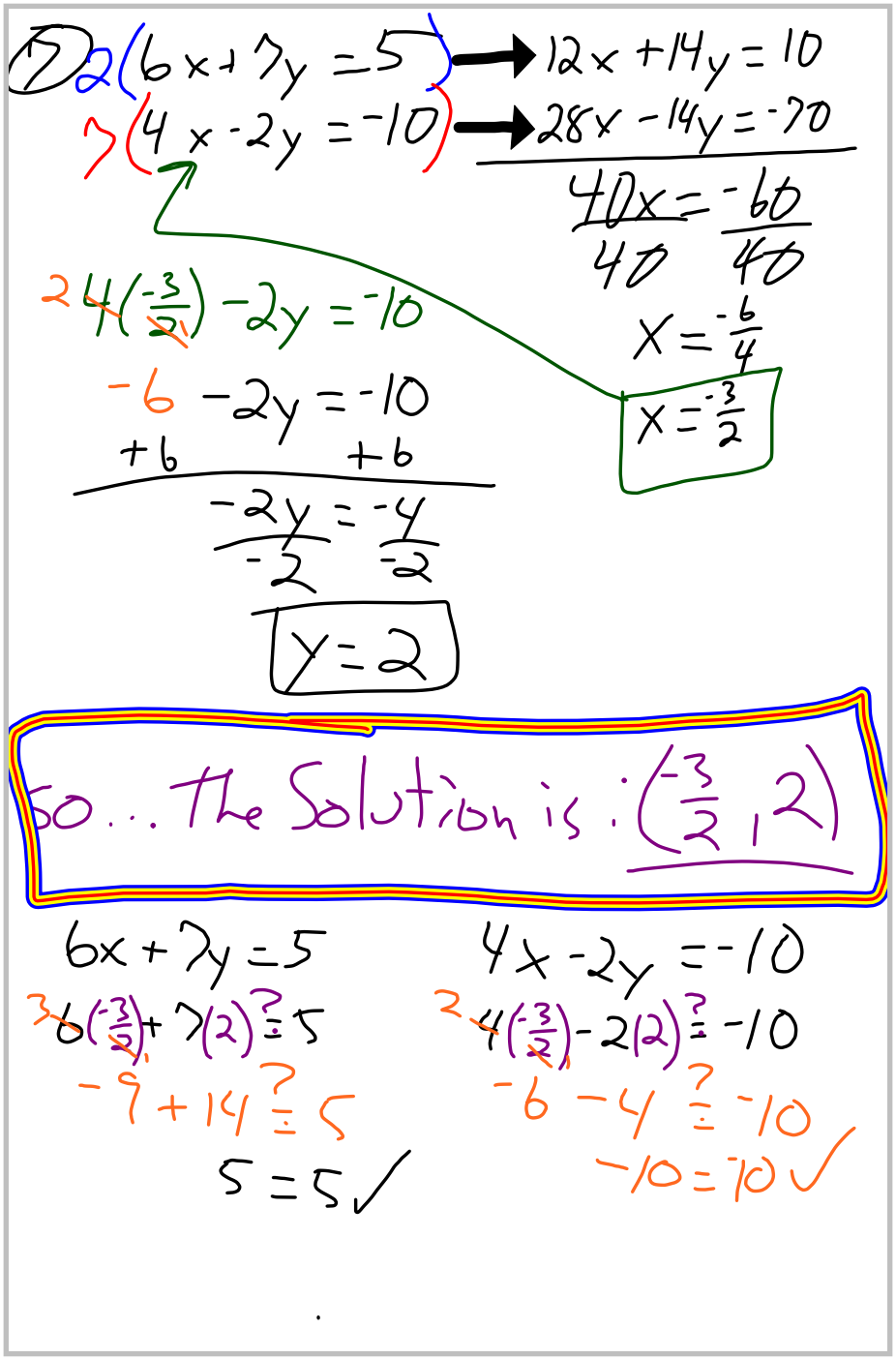
So... the Solution is: (1, -1)

④ $-4x+7y=-2$

$x=-y-5$


5
7x + 4y = 5
* x − 6y = −19
+19
7
133
x − 6y = −19
+6y +6y
x = (6y − 19)
7(6y − 19) + 4y = 5
42y − 133 + 4y = 5
46y − 133 = 5
+133 +133
46y = 138
46 46
y = 3
x = 6(3) − 19
x = 18 − 19
x = −1
So... the solution is: (−1, 3)
7x + 4y = 5
7(−1) + 4(3) ≟ 5
−7 + 12 ≟ 5
5 = 5 ✓
x − 6y = −19
(−1) − 6(3) ≟ −19
−1 − 18 ≟ −19
−19 = −19 ✓


8) -7x+2y=-5
10x-2y=6
-7x+2y=-5
+10x-2y=6
3x/3 = 1/3
x=1/3
10(1/3)-2y=6
10/3 - 2y = 18/3
-10/3 -10/3
-2y = 8/3 ÷ -2
-2
y = 8/3 · 1/-2
y=-4/3
So... the Solution is: (1/3, -4/3)
-7x+2y=-5
-7(1/3)+2(-4/3) ? -5
-7/3 + -8/3 ? -5
-15/3 ? -5
-5=-5 ✓
10x-2y=6
10(1/3)-2(-4/3) ? 6
10/3 + 8/3 ? 6
18/3 ? 6
6=6 ✓


2(6x + 7y = 5) → 12x + 14y = 10
3(4x - 2y = -10) → 28x - 14y = -70
40x = -60
40 40
x = -6/4
x = -3/2
4(-3/2) - 2y = -10
-6 - 2y = -10
+6 +6
-2y = -4
-2 -2
y = 2
So... The Solution is: (-3/2, 2)
6x + 7y = 5
6(-3/2) + 7(2) ? 5
-9 + 14 ? 5
5 = 5 ✓
4x - 2y = -10
4(-3/2) - 2(2) ? -10
-6 - 4 ? -10
-10 = -10 ✓