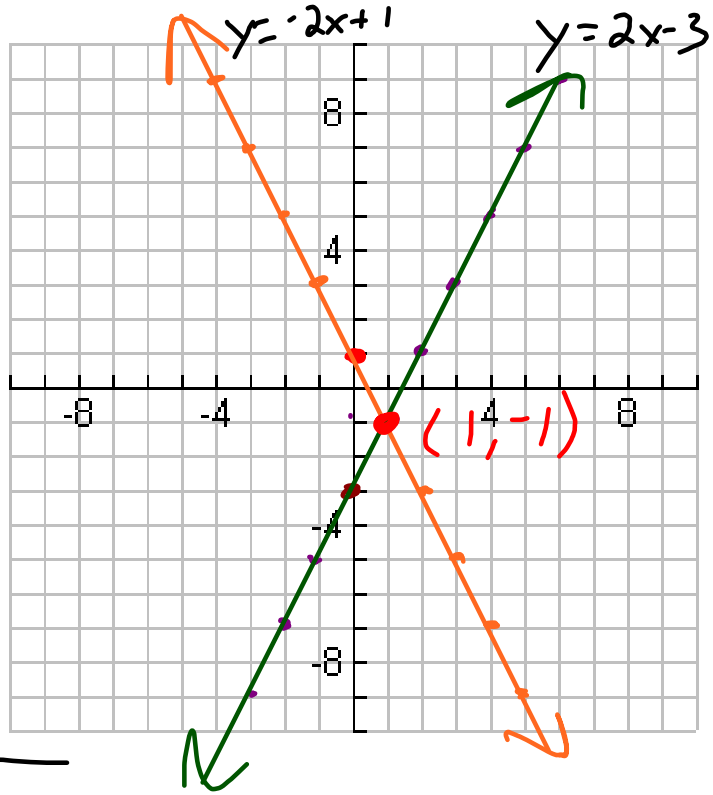
① $y = 2x - 3$

$-y = 2x - 1$

$y = -2x + 1$



$y = 2x - 3$

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

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

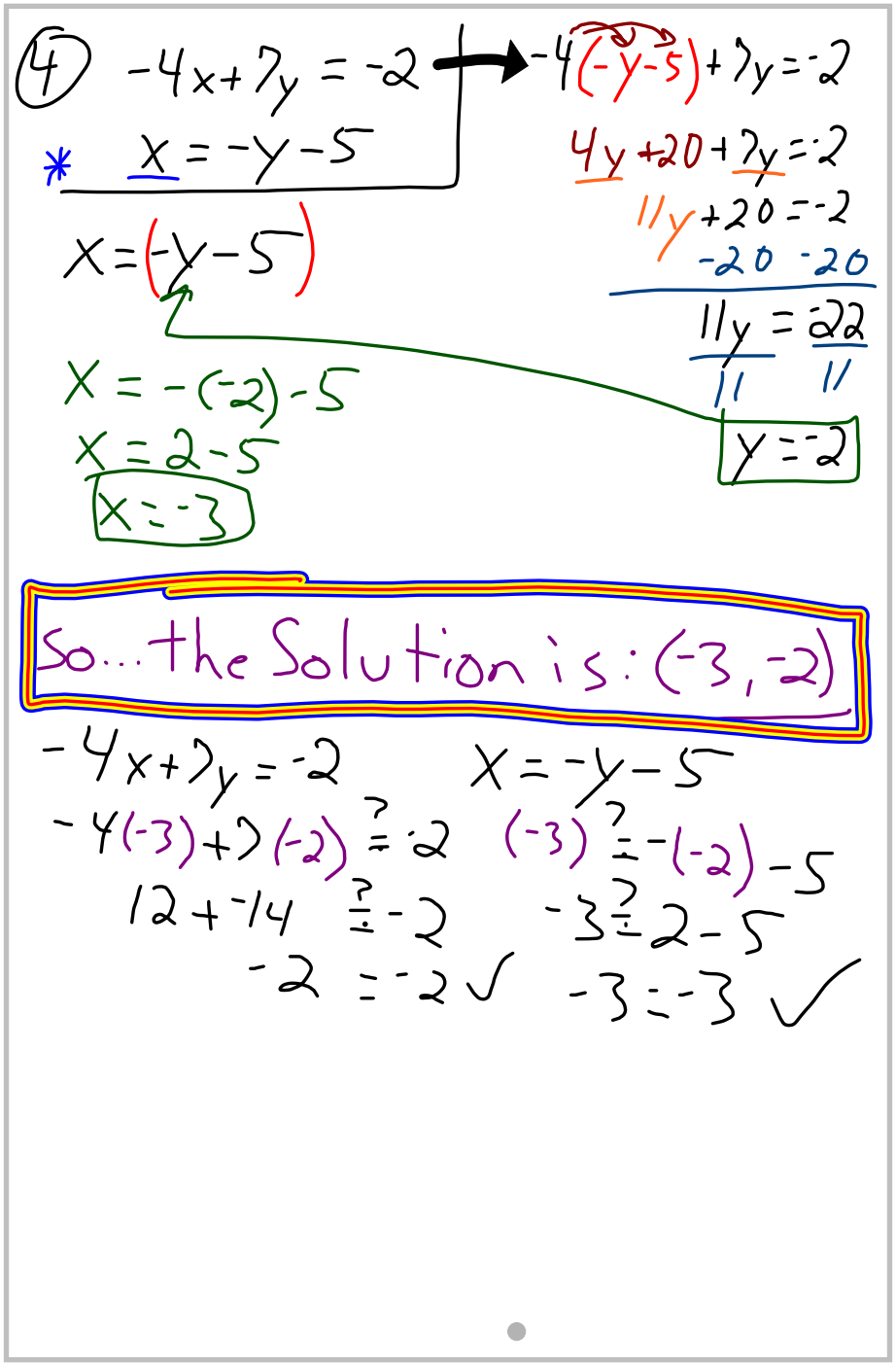
$-1 = -1$ ✓

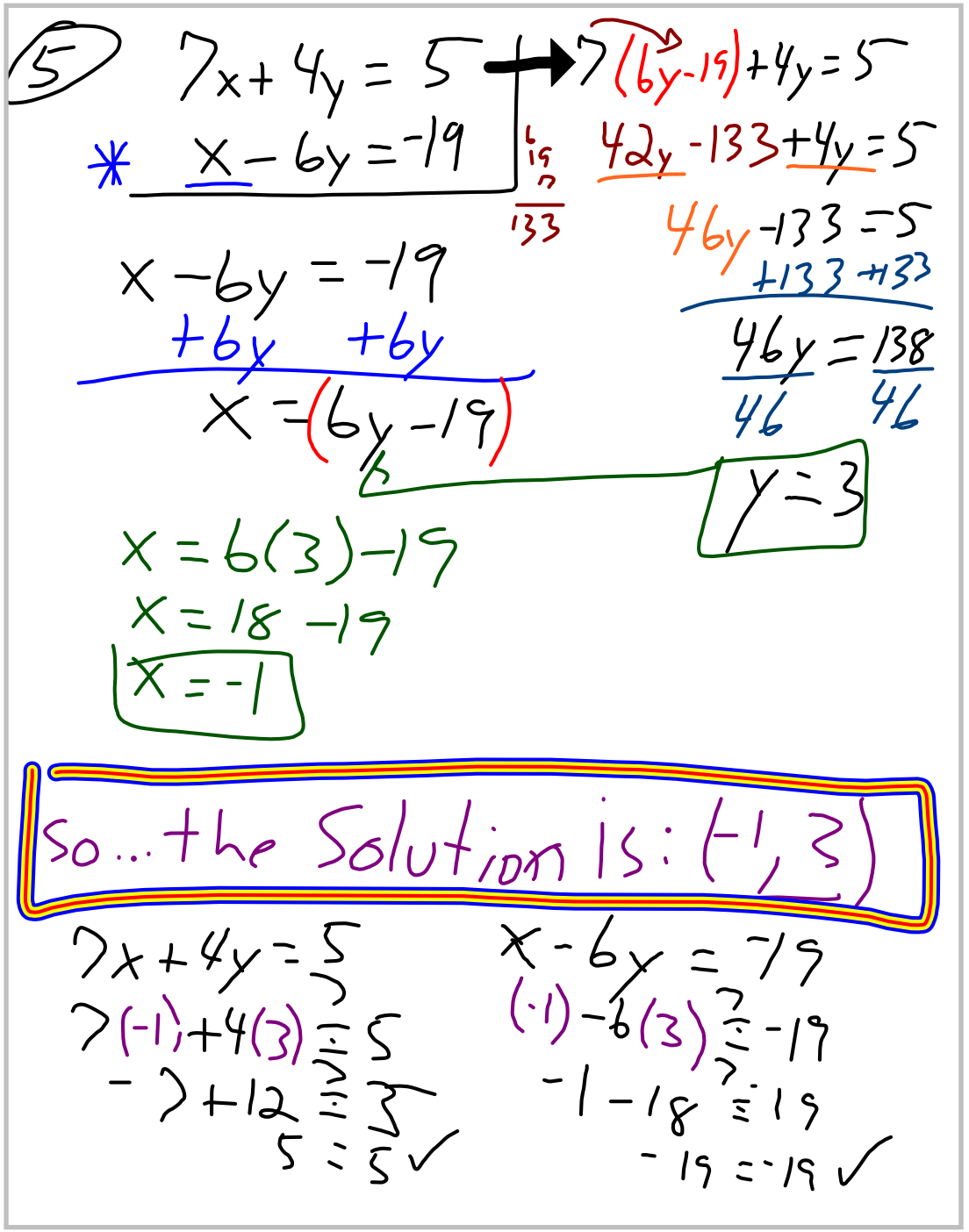
$-y = 2x - 1$

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

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

$1 = 1$ ✓


④ $-4x+7y=-2$
* $x=-y-5$
$-4(-y-5)+7y=-2$
$4y+20+7y=-2$
$11y+20=-2$
$-20\ \ -20$
$11y=-22$
$11\ \ 11$
$y=-2$
$x=(-y-5)$
$x=-(-2)-5$
$x=2-5$
$x=-3$
So...the Solution is: $(-3,-2)$
$-4x+7y=-2$
$-4(-3)+7(-2)\stackrel{?}{=}-2$
$12+-14\stackrel{?}{=}-2$
$-2=-2\checkmark$
$x=-y-5$
$(-3)\stackrel{?}{=}-(-2)-5$
$-3\stackrel{?}{=}2-5$
$-3=-3\checkmark$


5
7x + 4y = 5
* x − 6y = −19
is in
133
7(6y − 19) + 4y = 5
42y − 133 + 4y = 5
46y − 133 = 5
+133 +133
46y = 138
46 46
y = 3
x − 6y = −19
+6y +6y
x = 6y − 19
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) $-7x+2y=-5$ → $-7x+2y=-5$

$10x-2y=6$ → $+\ 10x-2y=6$

$\frac{3x}{3}=\frac{1}{3}$

$x=\frac{1}{3}$

$10\left(\frac{1}{3}\right)-2y=6$

$\frac{10}{3}-2y=\frac{18}{3}$

$-\frac{10}{3}\quad -\frac{10}{3}$

$\frac{-2y}{-2}=\frac{8}{3}\div -2$

$y=\frac{8}{3}\cdot\frac{-1}{2}$

$y=\frac{-4}{3}$

So...the solution is: $\left(\frac{1}{3},\frac{-4}{3}\right)$

$-7x+2y=-5$

$-7\left(\frac{1}{3}\right)+2\left(\frac{-4}{3}\right)\stackrel{?}{=}-5$

$-\frac{7}{3}-\frac{8}{3}\stackrel{?}{=}-5$

$-\frac{15}{3}\stackrel{?}{=}-5$

$-5=-5$ ✓

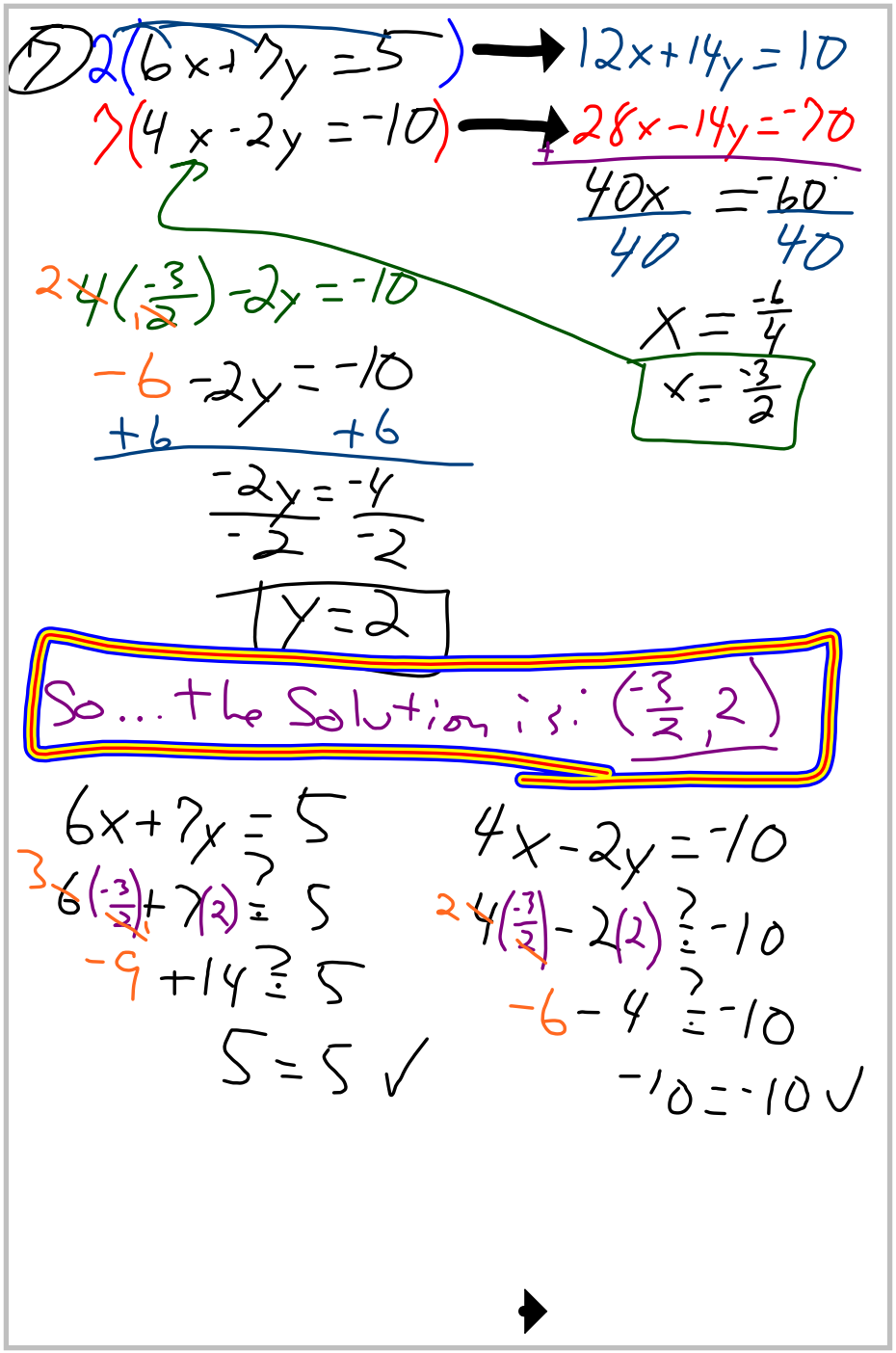
$10x-2y=6$

$10\left(\frac{1}{3}\right)-2\left(\frac{-4}{3}\right)\stackrel{?}{=}6$

$\frac{10}{3}+\frac{8}{3}\stackrel{?}{=}6$

$\frac{18}{3}\stackrel{?}{=}6$

$6=6$ ✓


7) 2(6x+7y=5) → 12x+14y=10
3(4x-2y=-10) → 28x-14y=-70
40x/40 = -60/40
x = -1/4
x = -3/2
24(-3/2)-2y=-10
-6-2y=-10
+6 +6
-2y/-2 = -4/-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 ✓