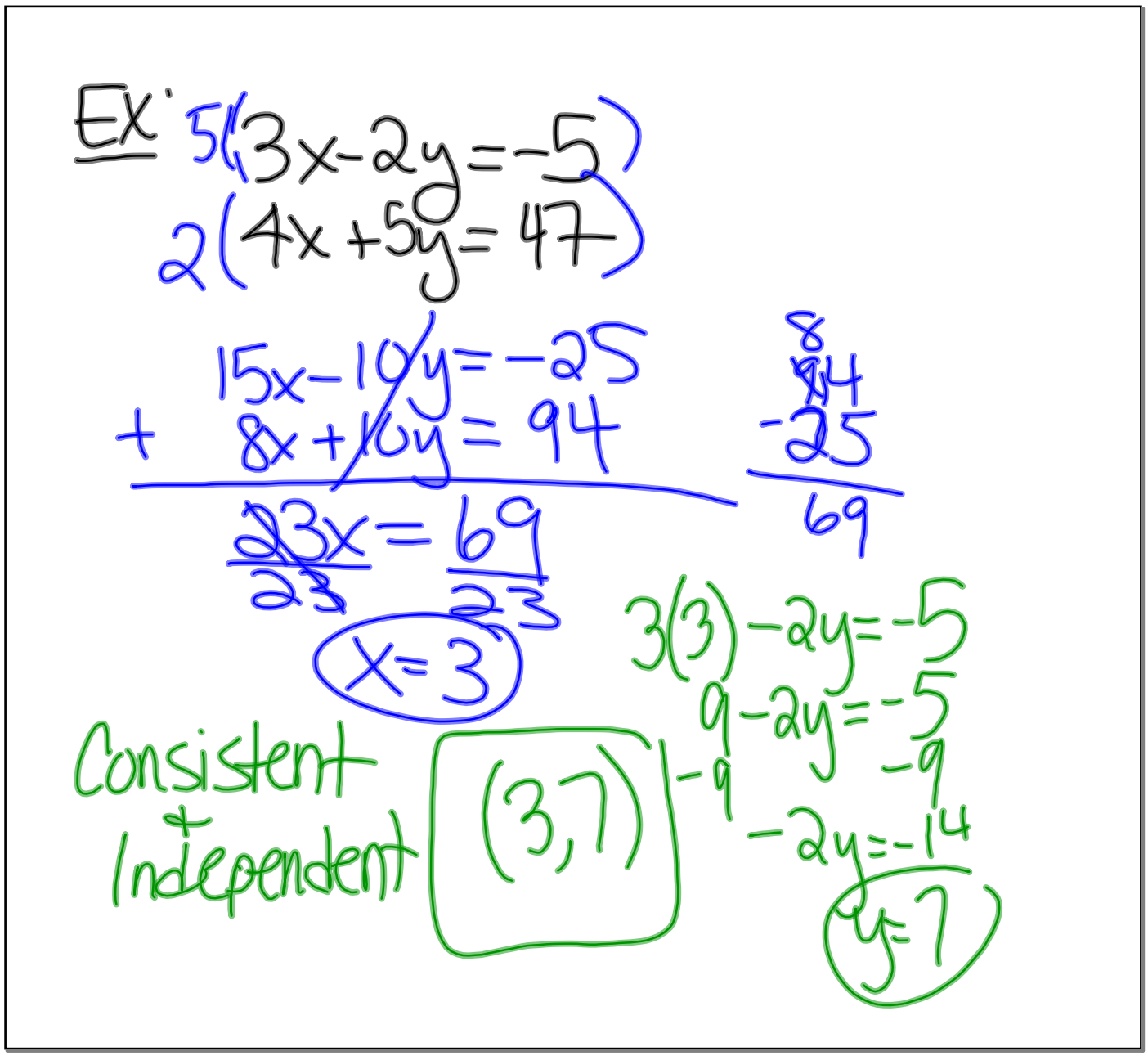

EX:
5(3x-2y=-5)
2(4x+5y=47)
15x-10y=-25
+ 8x+10y=94
23x=69
23 23
x=3
3(3)-2y=-5
9-2y=-5
-9 -9
-2y=-14
y=7
Consistent
+
Independent
(3,7)

$-16x+2y=-2$

$y=8x-1$

$\frac{2y}{2}=\frac{16x-2}{2}$

$y=8x-1$

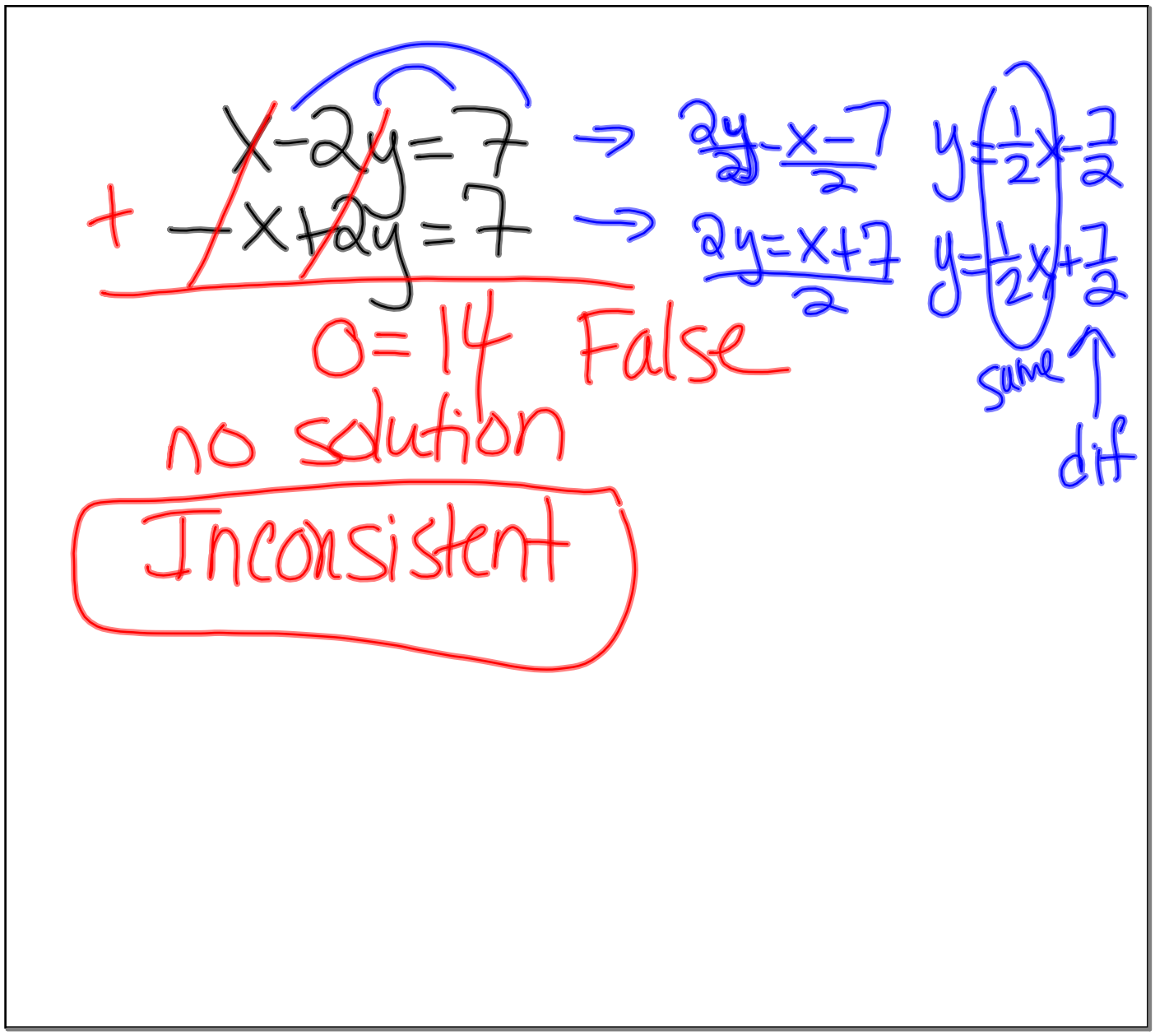
$-16x+2(8x-1)=-2$

$-16x+16x-2=-2$

$-2=-2$ True

Infinitely many solutions

Consistent & Dependent


x − 2y = 7
+ −x + 2y = 7
0 = 14 False
no solution
Inconsistent
2y = x − 7
2y = x + 7
y = ½x − 7/2
y = ½x + 7/2
same
dif