Bell Work

1. $2x + 6 = 16$

$-6 \quad -6$

$\frac{2x}{2} = \frac{10}{2}$

$x = 5$

2. $2 - 2x + 3 = -11$

$-2x + 5 = -11$

$-5 \quad -5$

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

$x = 8$

1-4 Special Cases

Objectives:

- I can identify solutions of equations

- I can solve equations that have one solution, no solution, and infinitely many solutions

Vocabulary

No solution: Doesn't have an answer.

$1 = 4$

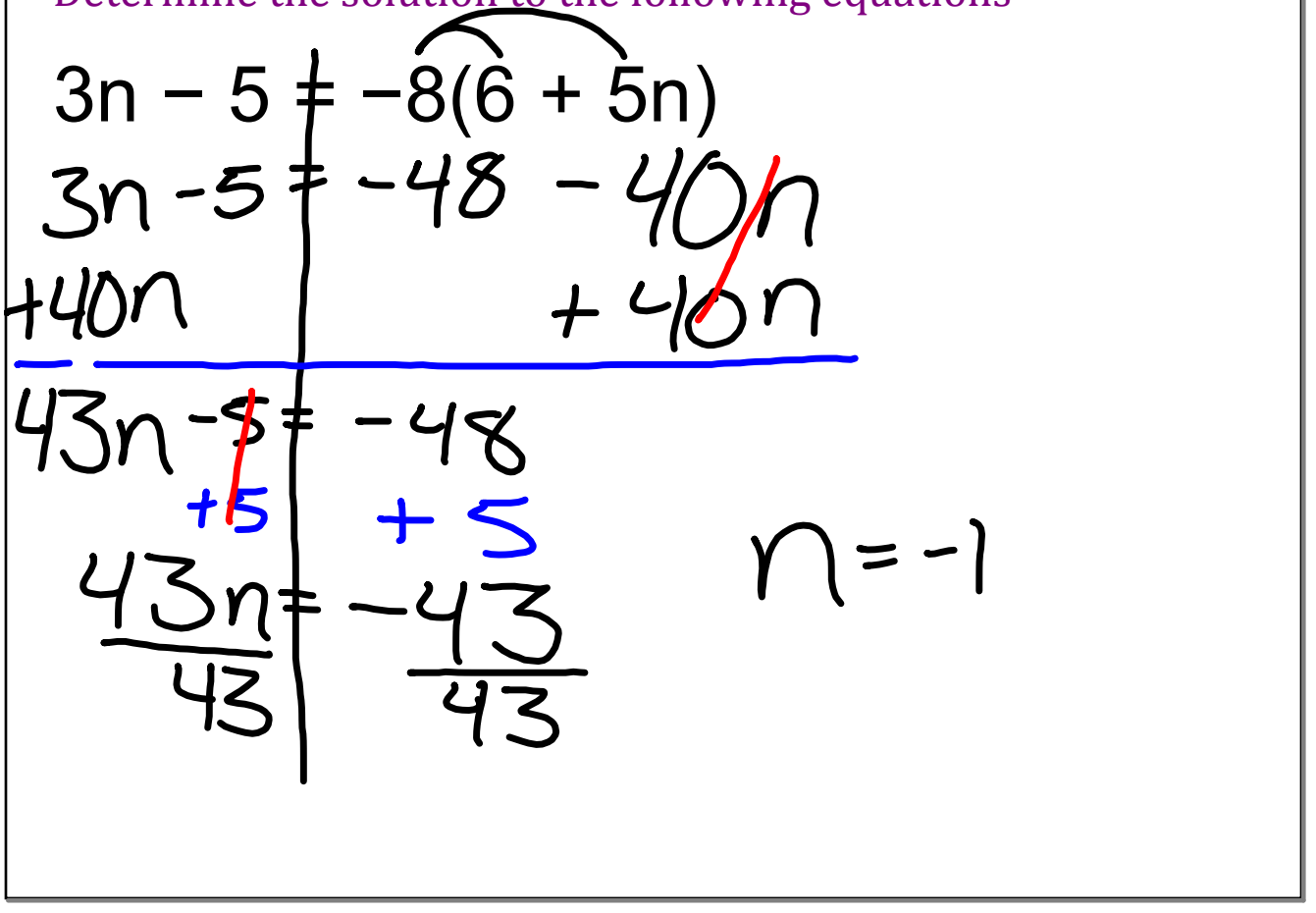
One solution:

$X = 6$

Many solutions:

$4 = 4$

Determine the solution to the following equations

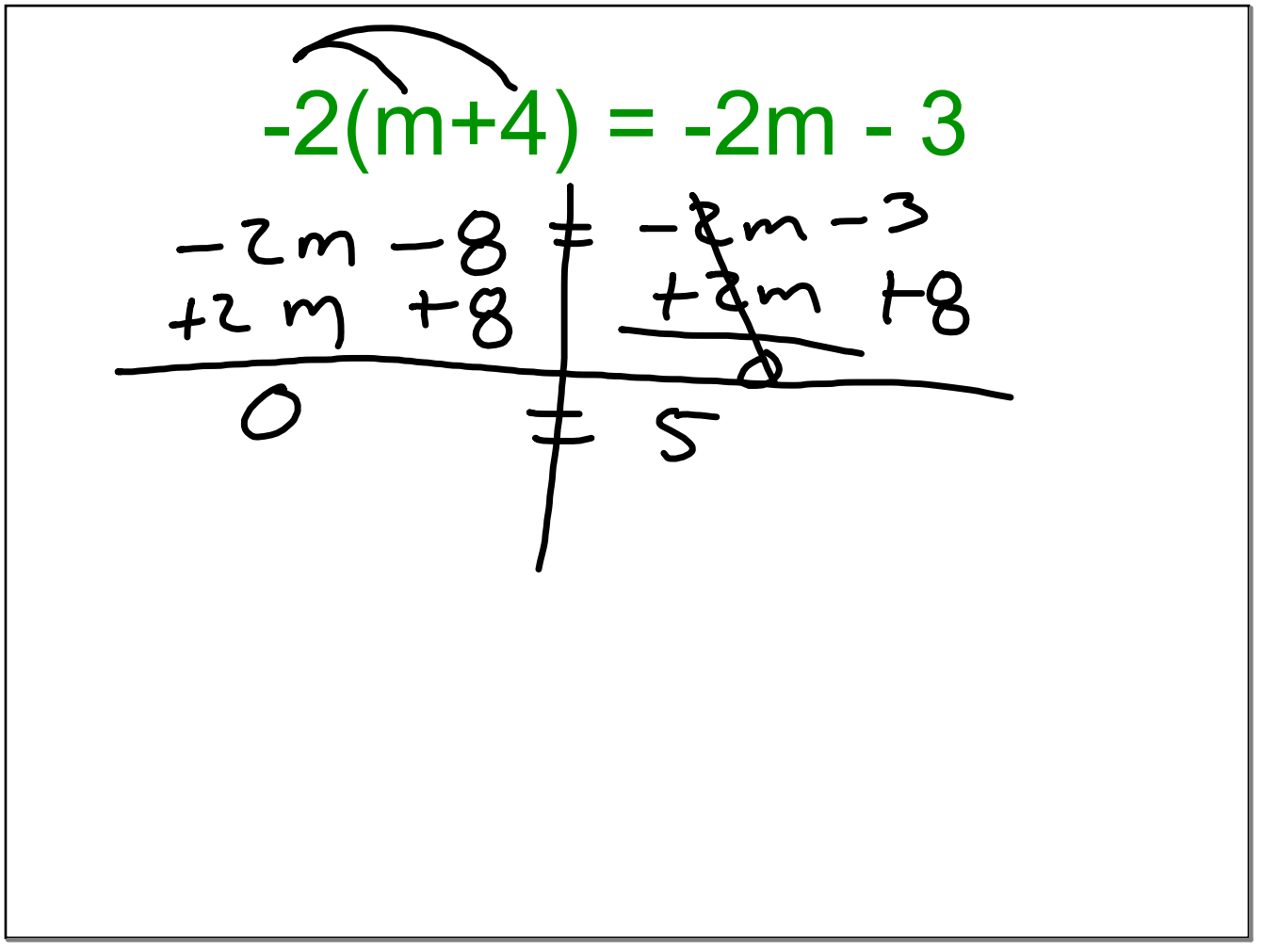


Types of solutions:

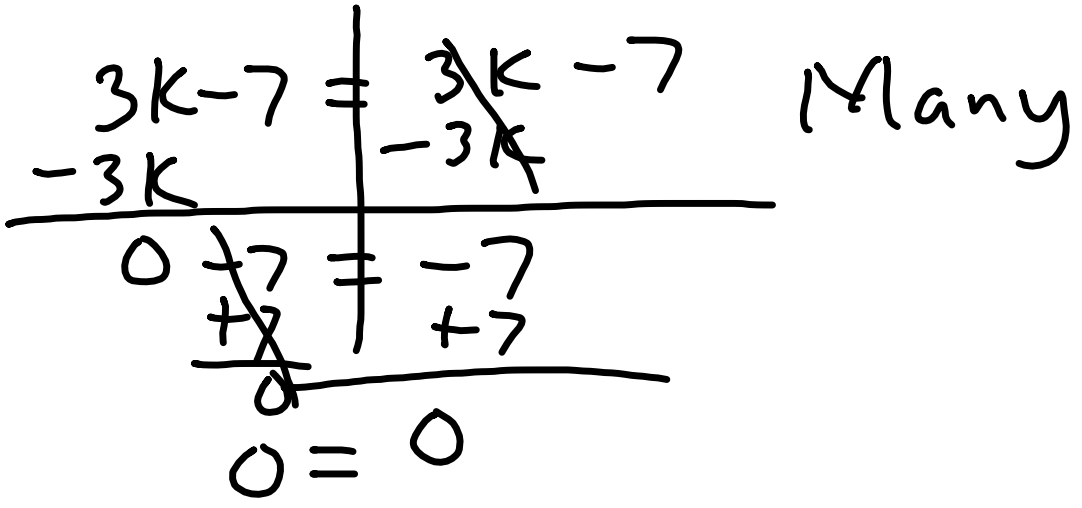
$-2 = 7$ no solution

$5 = 5$ Many

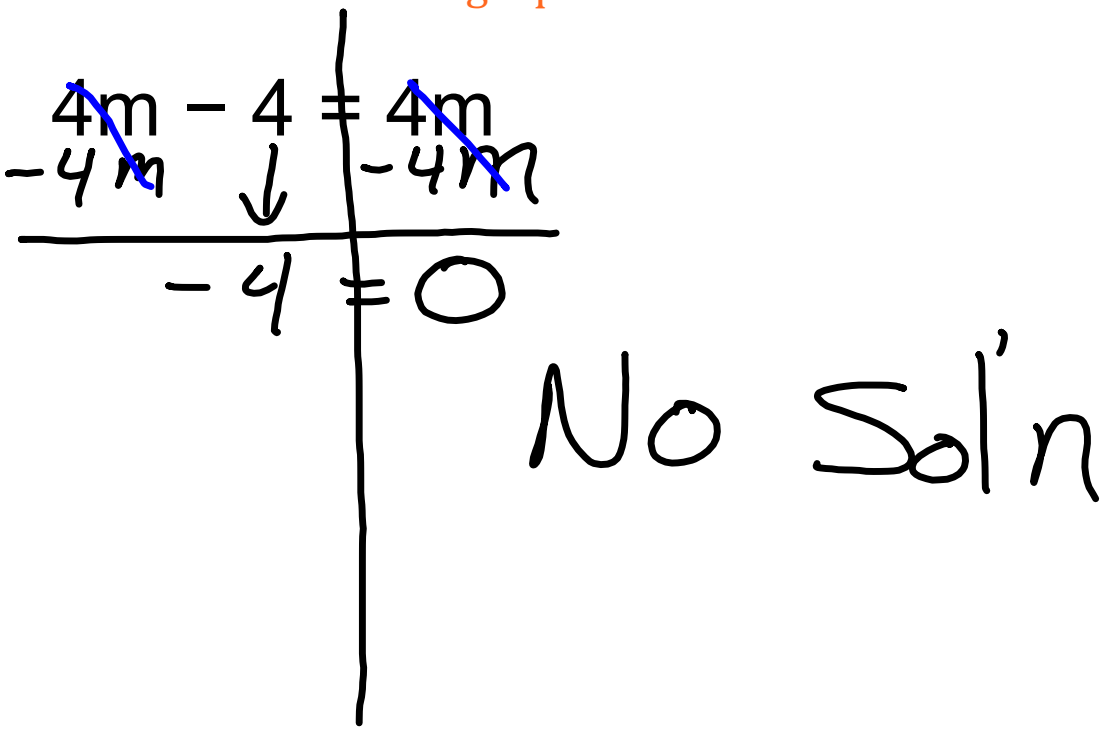
$x = -9$ One


-2(m+4) = -2m - 3
-2m -8 = -2m -3
+2m +8 +2m +8
0 = 5

$3k - 7 = 4k - 7 - k$



Evaluate the following equations for the indicated variable



No Soln

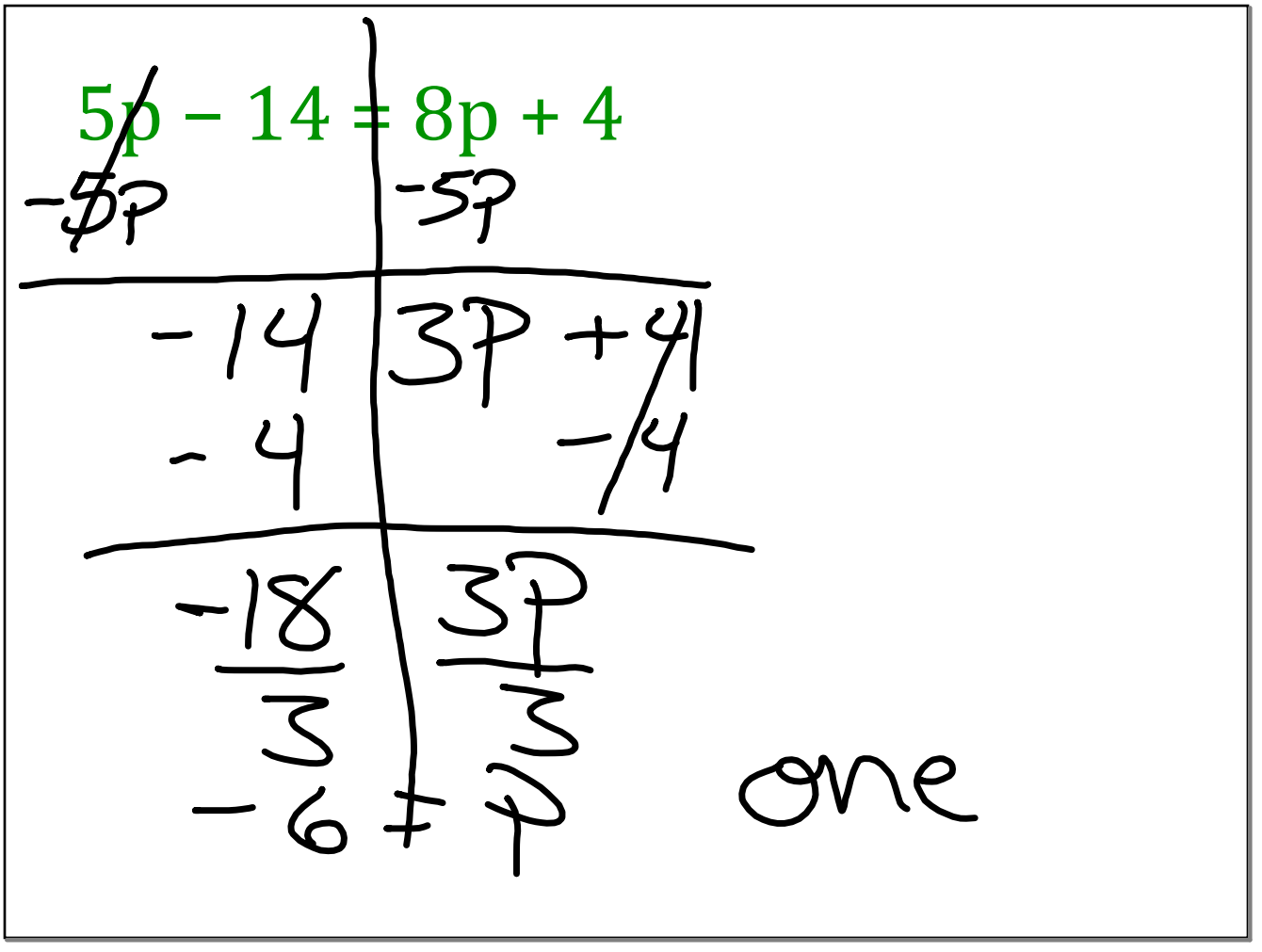
$8p - 1 = 5p - 1 + 3p$

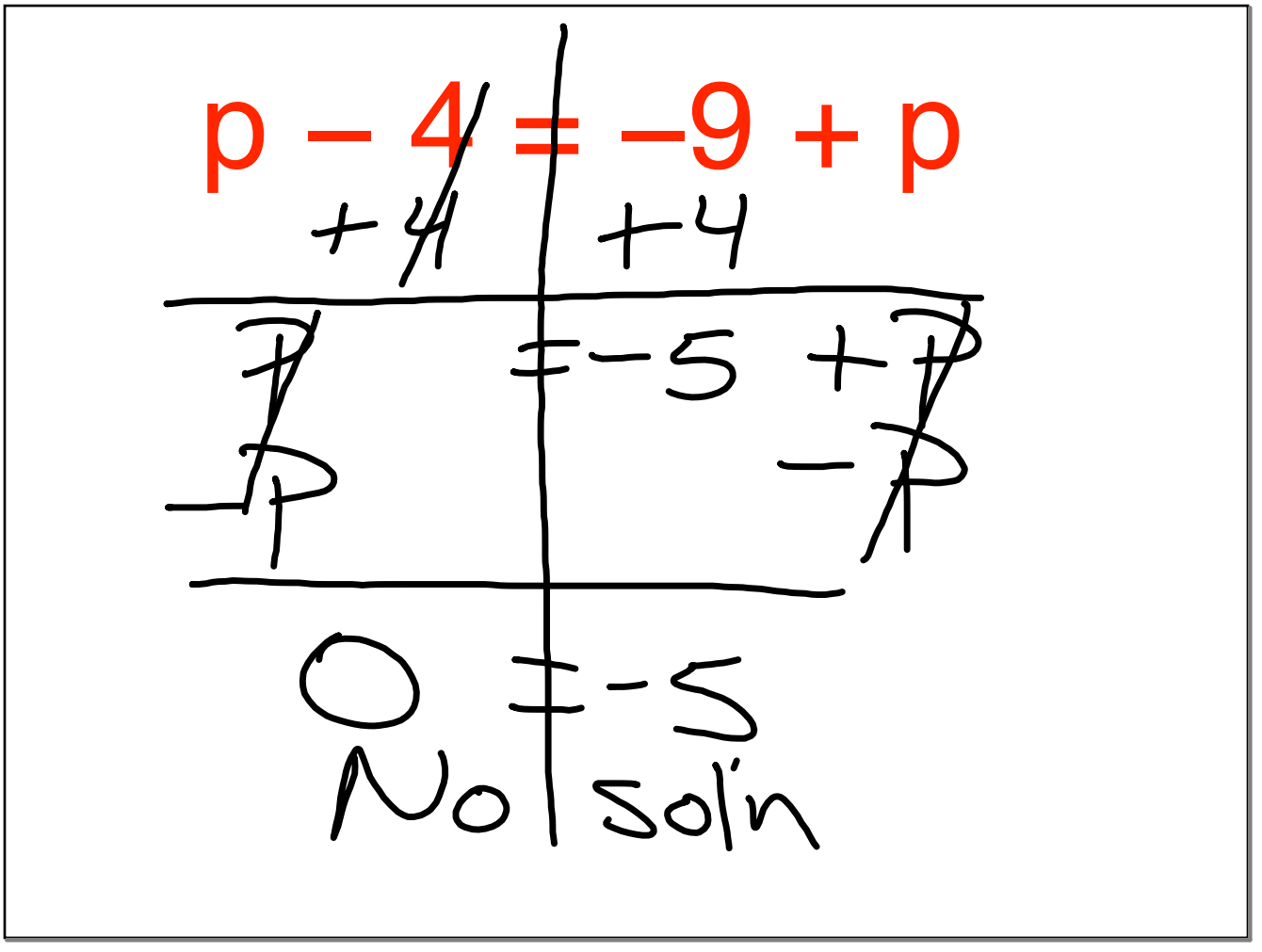
$8p - 1 \quad | \quad 8p - 1$

$-8p \quad\quad | \quad -8p$

$-1 \quad\quad | \quad -1$

Many


5p – 14 = 8p + 4
-5p -5p
-14 3p + 4
-4 -4
-18 3p
3 3
-6 ≠ p
one


p – 4 = –9 + p
+4 +4
= –5
0 = –5
No soln