3.4 **Dec. 07, 2006**

Solving Equations w/ Variables on Both Sides

ex 1 $7x + 19 = -2x + 55$

move the lesser Variable to the greater side

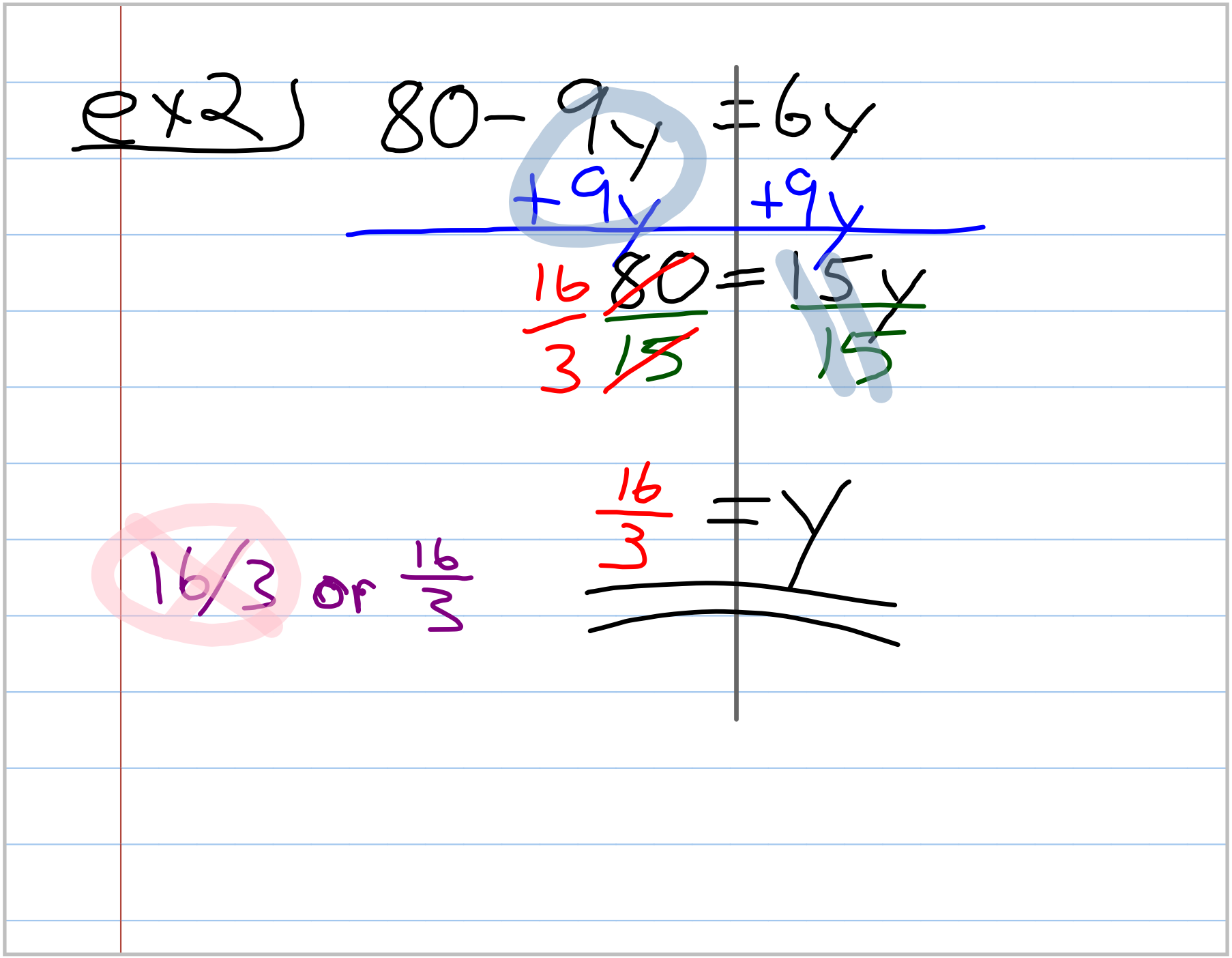
$+2x \quad +2x$

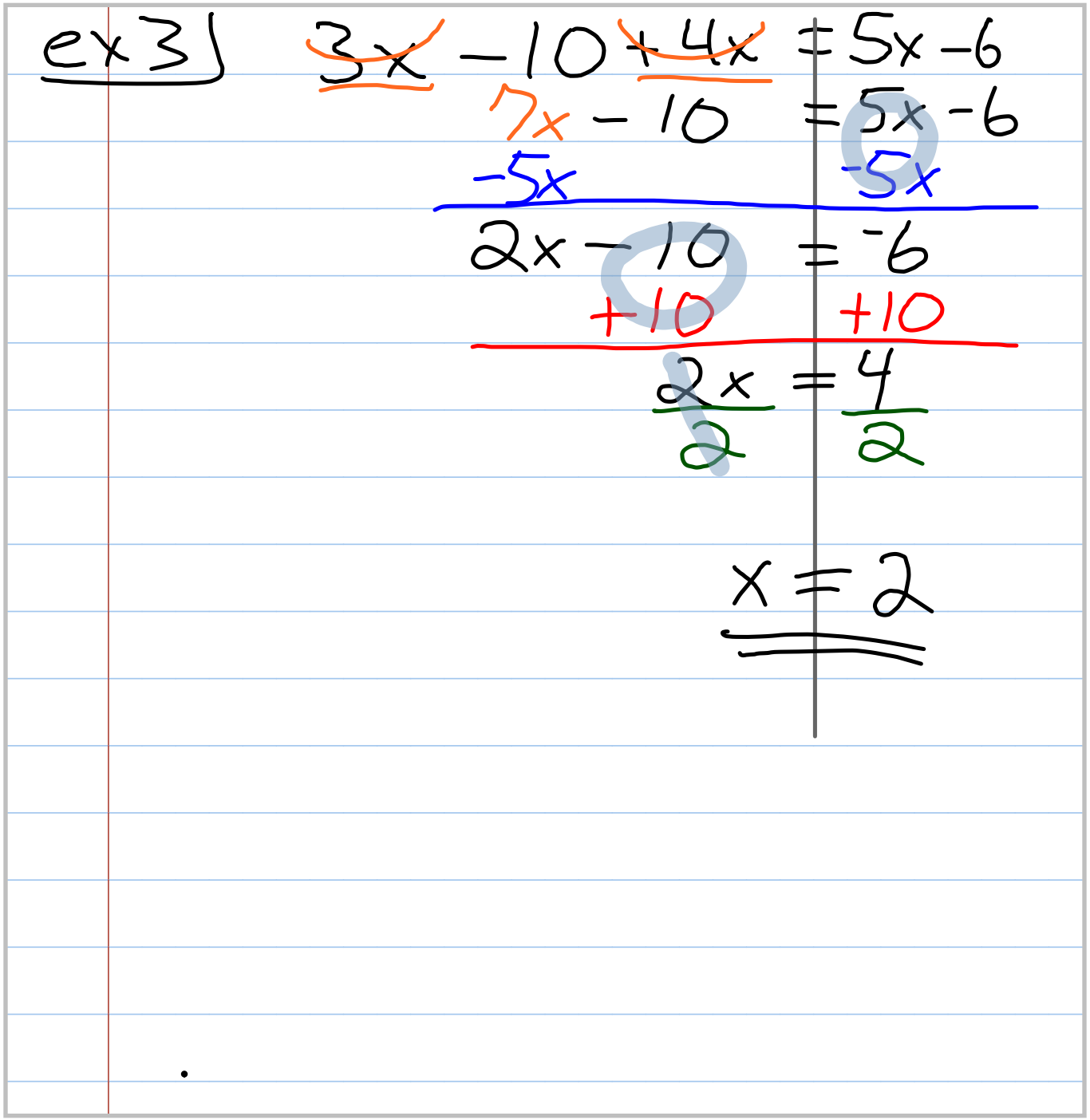
$9x + 19 = 55$

$-19 \quad -19$

$\frac{9x}{9} = \frac{36}{9}$

$x = 4$


ex2) 80 − 9y = 6y
+9y +9y
80 = 15y
16/3 15
15
16/3 = y
16/3 or 16/3


ex3)
3x − 10 + 4x = 5x − 6
7x − 10 = 5x − 6
−5x −5x
2x − 10 = −6
+10 +10
2x = 4
2 2
x = 2

of Solutions

Linear equations have 1 Solution.

Some Linear equations have NO Solution

Identity is an equation that is true for
All values of the Variables.

Determine if the equation has, 1 solution, no solution, or is the identity.

a) $3(x+2) = 3x+6$

$3(x)+3(2) = 3x+6$

b) $3(x+2) = 3x+4$

c) $3(x+2) = 2x+4$

STOP

O.T.L.

① pg 154-155:

9-14(a);

17-33(o); 48

② Turn in pg 150 1-6 all

pg. 154-155; 9-14(a):17-33(o):48

9) one solution, -1

10) no solution

11) one solution, 7

12) no solution

13) identity

14) one solution, 5

15) subtract x from each side

19) add 8x to each side

21) 3

23) 3

25) 2

27) $\frac{3}{7}$

29) -8

31) 4

33) -2

48) 5 sec.

3.5 More on Linear Equations

Oct. 13, 2006

ex 1 $4(1-x)+3x=-2(x+1)$

A) 9

B) $\frac{6}{5}$

C) 6

D) -6

ex2) $\frac{1}{4}(12x+16) = 10-3(x-2)$

A health club has two payment plans. You can become a member by paying a $10 new member fee and use the gym for $5 a visit. Or, you can use the gym as a nonmember for $7 a visit. Compare the cost of the two payment plans.

# of visits	1	2	3	4	5	6	7
Non-Mem.							
Mem.							

NonMem = Mem.

O.T.L.

① Copy chart pg 15 > Steps for Solving Lin. Equ. into N.B.

② pg 160-161 : 19-35(o); 40