Homework Review - p. 454

(38) ★ FOR ALL WD. PROBLEMS IN CH. 7:

You need to find TWO equations (both will have an x and a y)

★ FOR ALL WD. PROBLEMS:

Write down numerical information and identify it with words and/or variables

$14.94 — cost for Ryan

5 songs - # of songs for Ryan

1 album - # of albums for Ryan

$22.95 - cost for Seth

3 songs - # of songs for Seth

2 albums - # of albums for Seth

cost per song = ? x

cost per album = ? y

$2 \times (14.94) = (5x + 1y) \times 2$

$22.95 = 3x + 2y$

$-29.88 = 10x + -2y$

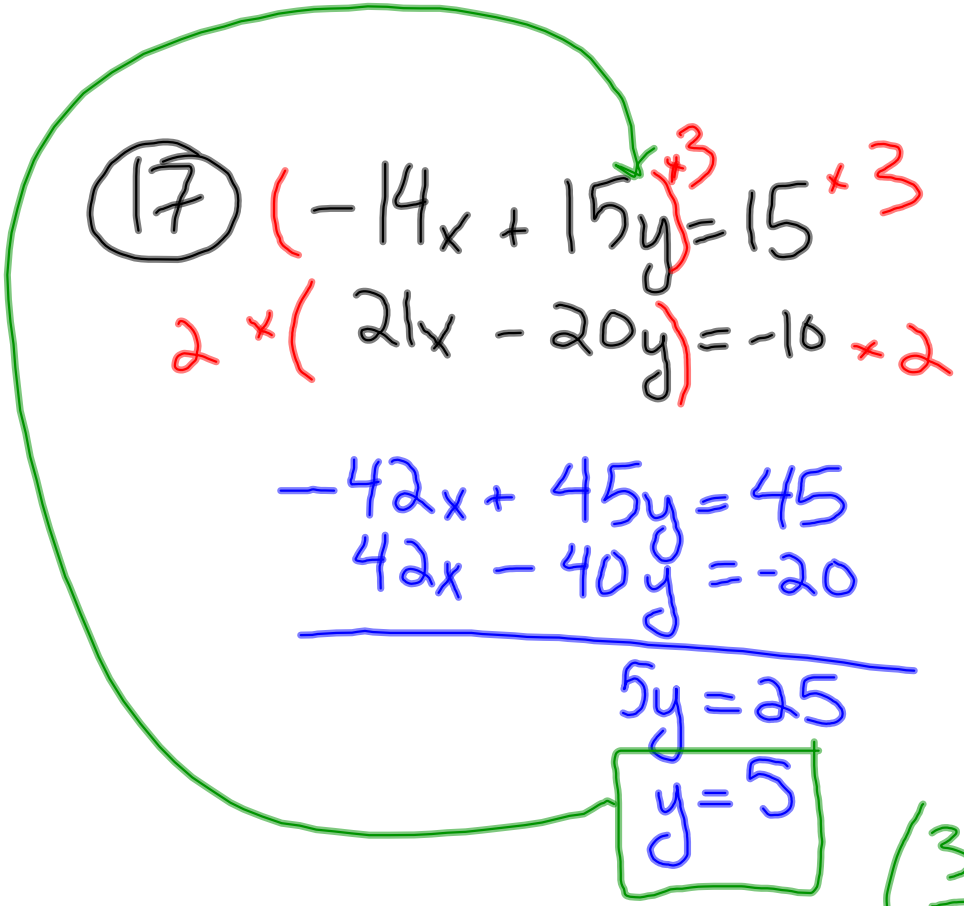
$\frac{-6.93}{-7} = \frac{-7x}{-7}$

$x = .99$

$14.94 = 5(.99) + y$

$14.94 = 4.95 + y$

$9.99 = y$



(17) $(-14x + 15y = 15) \times 3$

$2 \times (21x - 20y = -10) \times 2$

$-42x + 45y = 45$

$42x - 40y = -20$

$5y = 25$

$y = 5$

$-14x + 15(5) = 15$

$-14x + 75 = 15$

$\frac{-14x}{-14} = \frac{-60}{-14}$

$x = \frac{-60}{-14} =$

$x = \frac{60}{14} = \frac{30}{7}$

$\left(\frac{30}{7}, 5\right)$

(37) $4 per hardcover bk.

$2 per paperback

$26 = total sale

8 = total books

x = # of hardcovers

y = # of paperbacks

$4x + 2y = 26$

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

$2x = 10$

$x = 5$ hb

$5 + y = 8$

$y = 3$ pb

$4(5) + 2(3) = 26$

$20 + 6 = 26$ ✓

$5 + 3 = 8$ ✓

Remember:

- Work sample assessment
  Thurs. 11/20
- Unit test 7.1-7.5
  Fri. 11/21

→ Remind yourself how to solve linear systems by

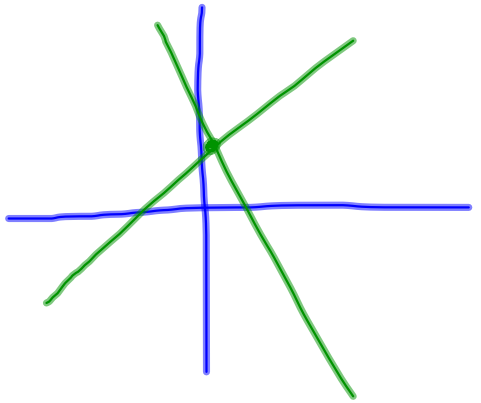
a) Graphing (7.1)
b) Substitution (7.2)
c) Addition/Subtraction - Elimination (7.3, 7.4)

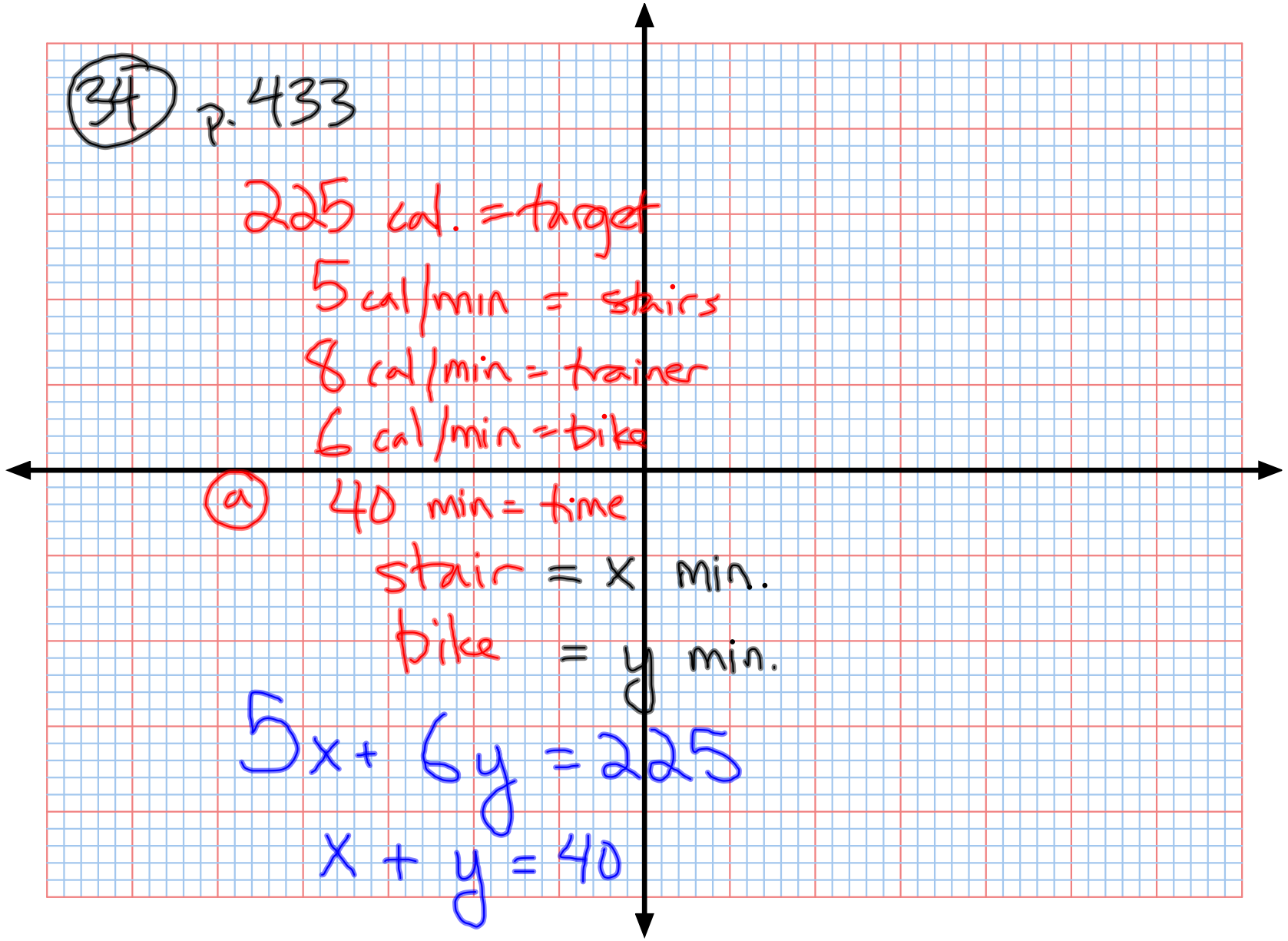
Solving linear systems through graphing:

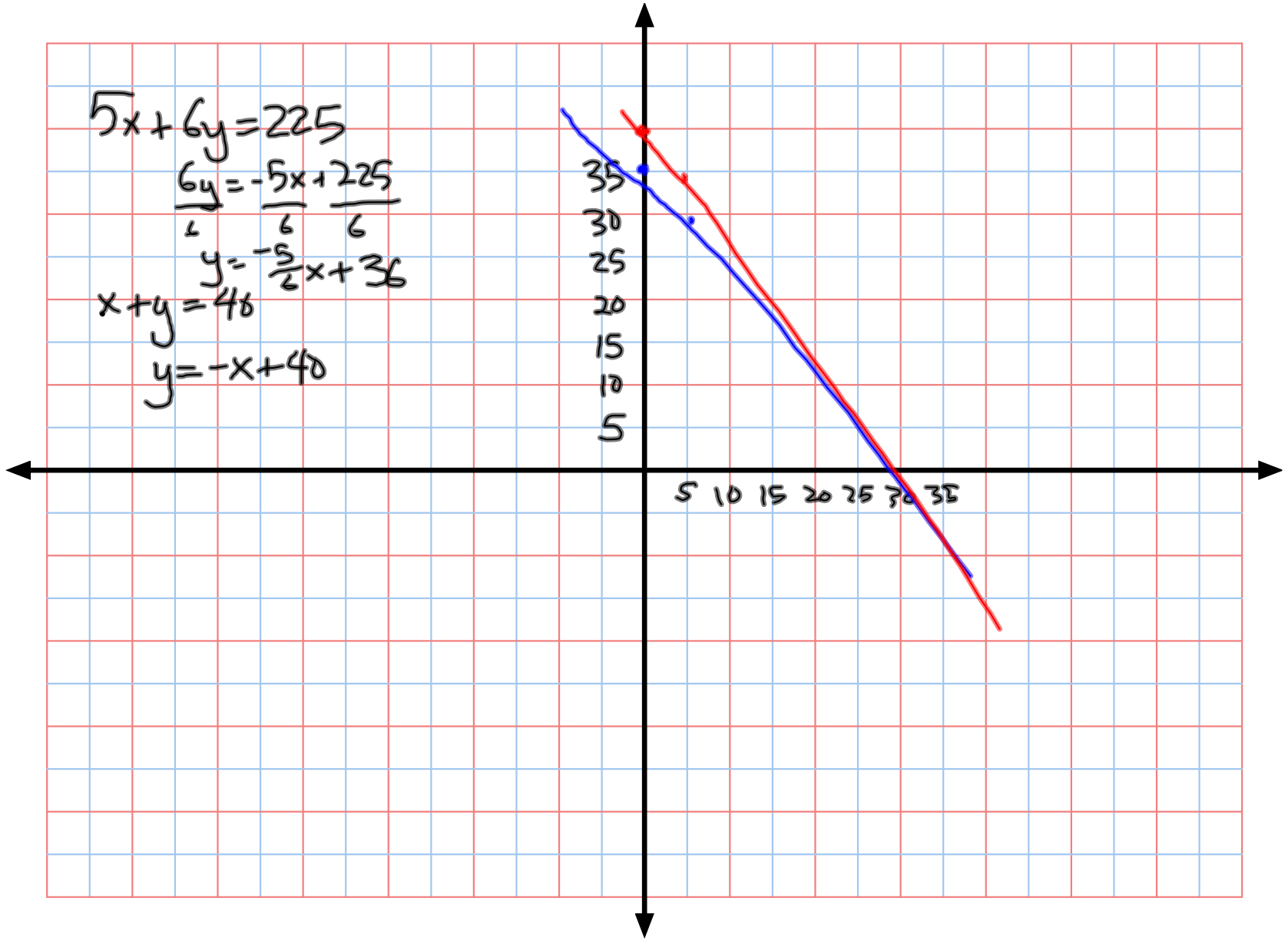
Step 1: Write both equations in $y = mx + b$ format

Step 2: Graph both equations

Step 3: Estimate the intersection point




34) p. 433
225 cal. = target
5 cal/min = stairs
8 cal/min = trainer
6 cal/min = bike
(a) 40 min = time
stair = x min.
bike = y min.
5x + 6y = 225
x + y = 40


5x+6y=225
6y = -5x + 225
6 6 6
y = -5/2 x + 36
x+y=40
y=-x+40
35
30
25
20
15
10
5
5 10 15 20 25 30 35

Homework:

p. 457 1-11 odd

p. 458 1, 2, 3, 6a