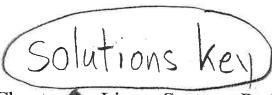
FOM₁₀



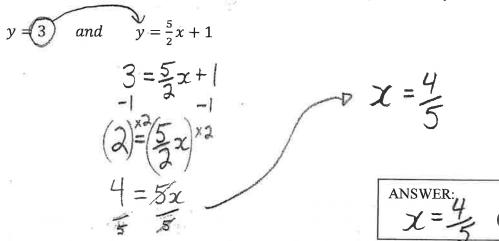
Name:

Date:

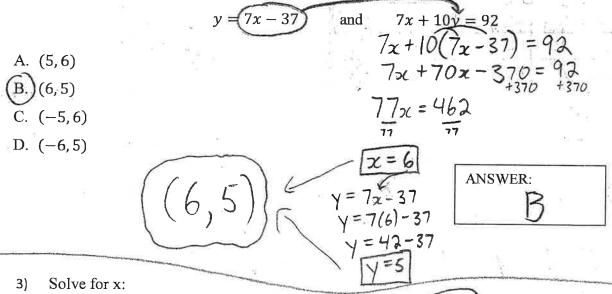
Chapter — Linear Systems Problem Solving

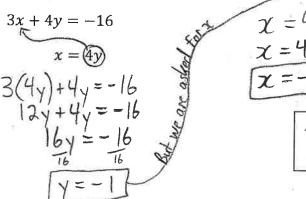
Show all work. Round all answers to the nearest tenth. Place answers in the "Answer" box and remember units.

1) Determine the **x-value** of the point of intersection for the system represented by:

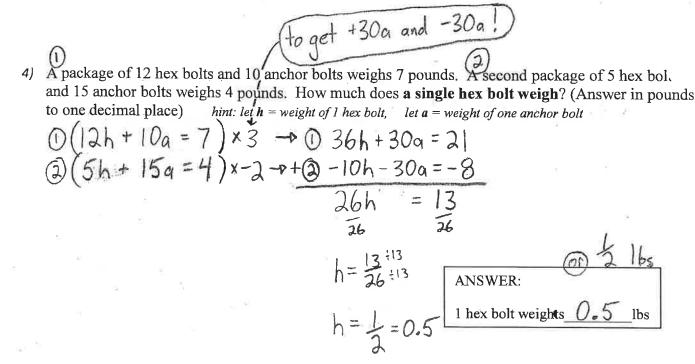


2) Which of the following ordered pairs represents the solution to the following linear system?





ANSWER:
$$\chi = -4$$



5) A boat took 3 hours to travel 24km with the current. On the return trip, the boat took 5 hours to travel 24km against the current. Determine the speed of the current.

let b = speed of boat in still water let c = speed of current

trip	(km)	(km/hc)	(hos)	Equation (V= =)
with current	24	6+c	3	b+c= 24(=8
against	24	6-c	5	b-c= 24(=4.8

ANSWER: Speed of current = 1.6

6) The sum of two numbers is 152. She number is 4 less than 3 times the other number. What are the let x = one number, let y = other # two numbers?

$$2x = 3y - 4$$

$$0(3y - 4) + 4 = 152$$

$$4y = 156$$

$$y = 39$$

②
$$x = 3y - 4$$

 $x = 3(39) - 4$
 $x = 117 - 4$
 $x = 113$

ANSWER: The two numbers are 113 and

