Find (or make) an x= or y= equation. Plug into other equation!

Algebra I - Unit 4:Solving Systems by Substitution

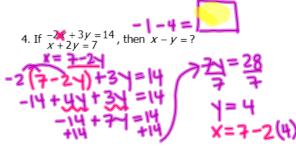
Practice - Solving Systems by Substitution Name HW Nelp (:

Find the solution for each system of linear equations.

1. 
$$y = 2x \\ x + y = 12$$

2. 
$$y = 2x - 5$$
 (2)

y's concel 5 \$ 10 No solution.



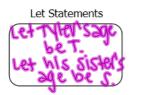
5. The equations of two lines are  $2\sqrt[4]{-3}y = 12$  and x = 4y + 1. What is the value of x in the solution for this system of equations?

system of equations?  

$$2(4y+1)-3y=12$$
Solve for  $y!$ 

Find the solution for each system of linear equations.

8. Tyler is six years older than his sister, and the sum of their ages is 32. How old is Tyler? How old is his sister?



Solve this system!

Answer (complete sentence):

9. What mistake was made in solving the following system of equations?

$$-3x + y = -4$$
  
3y = 15x + 6

Step 1: 3(3x-4) = 15x + 6

Step 2: 9x - 12 = 15x + 6

Step 3: 6 = 24x

Step 4:  $\frac{1}{4} = x$ 

10. Given the equations v = 3x = 8 and

3x = 2y + 7, what would you substitute for y in

the equation 3x = 2y + 7?

A 8 - 3x

C 8 + 3x

A Did not solve for y correctly

Did not distribute correctly in Step 1
Should have subtracted 9x from 15x in Step 2

D No mistake was made

Remember: NO WORK = NO CREDIT = NO KIDDING!