

SOLVING LINEAR SYSTEMS BY SUBSTITUTION

1. Solve the following linear systems:

a) $y = x + 7$
 $y = -x + 5$

Solve for x :	Solve for y :	Solution:

b) $y = 2x - 21$
 $y = -2x + 3$

Solve for x :	Solve for y :	Solution:

c) $y = 2x + 1$
 $y = -x - 23$

Solve for x :	Solve for y :	Solution:

2. Write a pair of equations to represent each situation and then **solve** the linear system using **substitution**. Check **ONE** solution.

a) **Malcom is twice as old as Steven. The sum of their ages is 39. How old is each person?**

Let x be Steven's age ...and... Let y be Malcom's age

Equations:

Solve for x :	Solve for y :	Solution:

b) **Three times as many robins as cardinals visited a bird feeder. If a total of 20 robins and cardinals visited the feeder, how many of each bird were there?**

Let x be the number of cardinals ...and... Let y be the number of robins

Equations:

Solve for x :	Solve for y :	Solution: