



# PERSON PUZZLE SOLVING SYSTEMS WITH SUBSTITUTION

NAME \_\_\_\_\_ DATE \_\_\_\_\_

## MAYA ANGELOU

Maya Angelou (1928 - 2014) is a well-known American author and poet. She was one of the first African American women to write publicly about the trials in her personal life and her artistic success led to opportunities to work with Martin Luther King Jr. and other Civil Rights Activists. Her first autobiography, *I Know Why the Caged Bird Sings*, brought her national recognition and acclaim.



**DIRECTIONS:** Solve each system of equation by substitution. The word or phrase next to the equivalent solution will complete the statement correctly.

1.  $y = 5x + 4$   
 $y = x$

Angelou was born in \_\_\_\_\_, Missouri.

- a. (1, 1)      Kansas City
- b. (-1, 1)     Springfield
- c. (-1, -1)    St. Louis

2.  $y = -2x + 10$   
 $y = x + 1$

Her real first name was actually \_\_\_\_\_.

- a. (-3, -2)     Calypso
- b. (3, 4)        Marguerite
- c. (5, 2)        Mary

3.  $y = x + 2$   
 $3x + 6y = 12$

Angelou was sexually abused by her mother's \_\_\_\_\_ at age 8, which shaped her career choices and motivation for writing.

- a. (0, 2)        boyfriend
- b. (4, 6)        brother
- c. (-3, -1)     father

4.  $-2x + y = 7$   
 $y = -4x - 11$

Angelou studied \_\_\_\_\_ and \_\_\_\_\_ at the California Labor School.

- a. (-3, 1)        dance and drama
- b. (10, -51)     literature and poetry
- c. (0, 7)         television and film

5.  $x = y - 1$   
 $y = -4x + 21$

Trying to support her son as a single mother, she worked as a pimp, prostitute and \_\_\_\_\_.

- a. (-3, -2)     Bookie
- b. (9, 10)       Drug Dealer
- c. (4, 5)        Night Club Dancer

6.  $y = -\frac{1}{4}x + 5$   
 $y = x + 2$

She helped build the Organization of African American Unity with \_\_\_\_\_.

- a. (-5, -3)       Julian Mayfield
- b. (12/5, 22/5)   Malcolm X
- c. (1, 3)         Martin Luther King Jr.

7.  $3x = -3 + 6y$   
 $-\frac{1}{3}x + 8 = y$

Since 1991, Angelou has been a professor at \_\_\_\_\_.

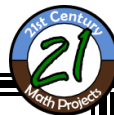
- a. (-7, 4)        Duke University
- b. (1, -9)        University North Carolina
- c. (9, 5)         Wake Forest University

8.  $-\frac{2}{3}x + 3y = -34$   
 $x = -3y + 3$

During her lifetime, Angelou was given over \_\_\_\_\_ honorary degrees.

- a. (6/5, -1/6)     5
- b. (1/5, 2/3)      10
- c. (111/5, -32/5) 30

# SHOW YOUR WORK



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 $y = x$

2.  $y = -2x + 10$   
 $y = x + 1$

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**MAYA  
ANGELOU**

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**DIRECTIONS** Solve each system of equations by substitution. In word problems use the correct solution to complete the sentence.

# ANSWER KEY

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