



# PERSON PUZZLE SOLVING SYSTEMS WITH SUBSTITUTION

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

## MAYA ANGELOU

An iconic American author and poet, Maya Angelou (1928 - 2014) was one of the first African American women to write publicly about the trials in her personal life. 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.  $y = x + 2$   
 $3x + 6y = 12$

After suffering from childhood abuse, Angelou became mute for \_\_\_\_\_ years.

- a. (0, 2)        five
- b. (4, 6)        four
- c. (-3, -1)     three

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 After the encouragement of writer John Oliver Killens, in 1959 Angelou moved to \_\_\_\_\_ to focus on her writing.

- a. (-3, -2)     California
- b. (9, 10)      Massachusetts
- c. (4, 5)        New York

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



1.

$$y = 5x + 4$$
$$y = x$$

2.

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

3.

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

4.

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



**MAYA  
ANGELOU**

5.

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

6.

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

7.

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

8.

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