

# Systems by Substitution Practice

Name \_\_\_\_\_

Date 9/11/2026

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Solve two-variable systems using substitution.

Solve by substitution:  $y = 2x + 1$ ;  $x + y = 10$ .

1.

\_\_\_\_\_

Solve by substitution:  $y = 2x + 1$ ;  $x + y = 25$ .

4.

\_\_\_\_\_

Solve by substitution:  $y = 2x + 1$ ;  $x + y = -8$ .

2.

\_\_\_\_\_

Solve by substitution:  $y = 2x + 1$ ;  $x + y = -2$ .

5.

\_\_\_\_\_

Solve by substitution:  $y = 2x + 1$ ;  $x + y = 19$ .

3.

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Solve by substitution:  $y = 2x + 1$ ;  $x + y = -17$ .

6.

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# Systems by Substitution Practice — Answer Key

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Solve two-variable systems using substitution.

Solve by substitution:  $y = 2x + 1$ ;  $x + y = 10$ .

1.

Answer:  $(x, y) = (3, 7)$

Solve by substitution:  $y = 2x + 1$ ;  $x + y = 25$ .

4.

Answer:  $(x, y) = (8, 17)$

Solve by substitution:  $y = 2x + 1$ ;  $x + y = -8$ .

2.

Answer:  $(x, y) = (-3, -5)$

Solve by substitution:  $y = 2x + 1$ ;  $x + y = -2$ .

5.

Answer:  $(x, y) = (-1, -1)$

Solve by substitution:  $y = 2x + 1$ ;  $x + y = 19$ .

3.

Answer:  $(x, y) = (6, 13)$

Solve by substitution:  $y = 2x + 1$ ;  $x + y = -17$ .

6.

Answer:  $(x, y) = (-6, -11)$