



# Common Core Mathematics Practice for Grade 8

CCSS.Math.Content.8.EE.C.8.b - Worksheet #33354

**Name:** \_\_\_\_\_**Standard: CCSS.Math.Content.8.EE.C.8.b**

Description: Solve systems of two linear equations in two variables algebraically, and estimate solutions by graphing the equations. Solve simple cases by inspection. For example,  $3x + 2y = 5$  and  $3x + 2y = 6$  have no solution because  $3x + 2y$  cannot simultaneously be 5 and 6.

## Solve Set of Linear Equations Algebraically for Intersection:

|   |   |
|---|---|
| <b>1.</b><br>$x + y = -3$<br>$2x + y = 1$   | <b>6.</b><br>$2x - y = 27$<br>$5x + y = 36$ |
| <b>2.</b><br>$5x - y = 37$<br>$2x - y = 16$ | <b>7.</b><br>$4x + y = 12$<br>$5x - y = 6$  |
| <b>3.</b><br>$2x + y = 4$<br>$x - y = -10$  | <b>8.</b><br>$2x - y = -7$<br>$y = 3$       |
| <b>4.</b><br>$2x + y = -4$<br>$3x + y = -7$ | <b>9.</b><br>$x + y = -17$<br>$y = -9$      |
| <b>5.</b><br>$3x + y = -9$<br>$y = -9$      | <b>10.</b><br>$4x - y = 43$<br>$x + y = 2$  |

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