

4.3 Systems of Equations in Two Variables-Solve by Elimination.

Solve the system by the elimination method.

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|--|-------------------|-------------------|-------------------|---|-----------|
| 1) $x + y = 14$ $x - y = -4$ | A) \emptyset | B) $\{(5, 9)\}$ | C) $\{(4, 10)\}$ | D) $\{(-5, 10)\}$ | 1) _____ |
| 2) $x - 3y = 7$ $-3x - 3y = 3$ | A) $\{(2, -3)\}$ | B) $\{(2, 1)\}$ | C) \emptyset | D) $\{(1, -2)\}$ | 2) _____ |
| 3) $x + 7y = -21$ $2x + 7y = -28$ | A) $\{(-6, -7)\}$ | B) $\{(-7, -2)\}$ | C) $\{(7, -3)\}$ | D) \emptyset | 3) _____ |
| 4) $x + 8y = -53$ $x + 7y = -57$ | A) $\{(-6, -5)\}$ | B) \emptyset | C) $\{(-85, 4)\}$ | D) $\{(5, -5)\}$ | 4) _____ |
| 5) $x + 7y = -49$ $9x + 8y = -56$ | A) \emptyset | B) $\{(7, 0)\}$ | C) $\{(1, -8)\}$ | D) $\{(0, -7)\}$ | 5) _____ |
| 6) $x - 3y = -2$ $5x - 2y = -10$ | A) $\{(-1, -2)\}$ | B) \emptyset | C) $\{(-2, 0)\}$ | D) $\{(2, -1)\}$ | 6) _____ |
| 7) $7x + 8y = 56$ $-5x + 6y = 42$ | A) $\{(-1, 8)\}$ | B) $\{(0, 8)\}$ | C) \emptyset | D) $\{(0, 7)\}$ | 7) _____ |
| 8) $8x - 5y = -48$ $3x + 3y = -18$ | A) \emptyset | B) $\{(-7, 1)\}$ | C) $\{(-6, 1)\}$ | D) $\{(-6, 0)\}$ | 8) _____ |
| 9) $-5x - 55 = -6y$ $-2x + 3y = 25$ | A) $\{(-5, 6)\}$ | B) $\{(-6, 6)\}$ | C) \emptyset | D) $\{(-5, 5)\}$ | 9) _____ |
| 10) $x + y = -3$ $x + y = -6$ | A) $\{(0, 0)\}$ | B) $\{(-3, -6)\}$ | C) $\{(0, -9)\}$ | D) \emptyset | 10) _____ |
| 11) $2x - 9y = 8$ $10x - 45y = 32$ | A) \emptyset | B) $\{(5, 4)\}$ | C) $\{(8, 32)\}$ | D) $\left\{\left\{\frac{10}{3}, -\frac{20}{27}\right\}\right\}$ | 11) _____ |

Answer Key

Testname: PRACTICE07A

- 1) B
- 2) D
- 3) B
- 4) C
- 5) D
- 6) C
- 7) D
- 8) D
- 9) D
- 10) D
- 11) A