Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Table #: \_\_\_\_ Period: \_\_\_\_\_\_ Date: \_\_\_\_\_\_\_

**5.3B HW**

Directions: Solve each systems of equations using the ELIMINATION METHOD

HINT: Make sure both equations are in standard form, Ax + By = C

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| 1. 4y = 2x + 14  3x + 2y = 3  Solution: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 2. -2x + 3y = 7  5x + 8y = -2  Solution: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 3. -3x – 6y = 12  y = -2x + 4  Solution: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 4. 7x + 2y = 5  -x – 6y = 5  Solution: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

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| 5. 2x+14y = 4  x + 7y = 7  Solution: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 6. 3x + 6y = 0  x + 2y = 0    Solution: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 7. Use 5.2B Warm-Up for assistance.  Without solving, match the systems fo linear equations on the left with the number of solutions on the right (NO SOLUTION, ONE SOLUTION, INFINITELY MANY SOLUTIONS)   |  |  |  | | --- | --- | --- | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | |  |  |  | | |

Solutions: 1. (-1,3) 2. (-2,1) 3. (4,-4) 4. (1, -1) 5. NS 6. IMS