Lesson 12.4 Practice: Solving Systems with Matrices

School Launch · Algebra II · Unit 12: Matrices and Vectors · Worksheet A

Calculator for decimals

Name _____ Date _____ Score _____ / 10

Show your work under each problem, one step per line, and check your answer. Word problems: name the unknown, write the equation, solve, and answer in a sentence with units.

1. Solve with matrices: $-3x + 0y = -12$, $3x - y = 10$. EASY

2. Solve with matrices: $-5x + y = -10$, $-1x + 0y = -1$. EASY

3. Solve with matrices: $2x + 3y = -3$, $3x - 5y = 24$. EASY

4. Solve with matrices: $-2x - 3y = 10$, $-1x - 5y = 26$. MEDIUM

5. Solve with matrices: $-3x + 4y = -17$, $-5x - 2y = -11$. MEDIUM

6. Solve with matrices: $-4x - y = -21$, $5x + 0y = 25$. MEDIUM

7. Solve with matrices: $0x + 3y = -9$, $5x - 5y = -15$. MEDIUM

8. Solve with matrices: $-3x - 5y = 14$, $0x - 2y = 2$. HARD

9. Solve with matrices: $1x - y = -9$, $-2x - 4y = -6$. HARD

10. Solve with matrices: $2x + 2y = -10$, $-5x - 4y = 19$. HARD