

Topic 4.7
Using Augmented Matrices
Homework

Name: _____

Date: _____

Solve each system of equations using an augmented matrix.

1. $5x + 7y = 31$
 $-6x + y = -9$

2. $12x - 8y = 4$
 $-3x + 5y = -25$

3. $-5x + y = -46$
 $x - 12y = 21$

Find the solution for each augmented matrix.

4. $\left[\begin{array}{cc|c} 1 & 2 & 16 \\ 3 & 4 & 34 \end{array} \right]$

5. $\left[\begin{array}{cc|c} 4 & 12 & 12 \\ 6 & 12 & 24 \end{array} \right]$

6. $\left[\begin{array}{cc|c} 2 & -4 & -14 \\ -10 & 8 & 10 \end{array} \right]$

7. $\left[\begin{array}{cc|c} 3 & 4 & -10 \\ 8 & 14 & -20 \end{array} \right]$

8. $\left[\begin{array}{ccc|c} 1 & 3 & 5 & 4 \\ 2 & 8 & 10 & 16 \\ 3 & 6 & 15 & 0 \end{array} \right]$