

Algebra 1
Practice Quiz 6.4-6.6

NAME _____

Solve each system of equations by Elimination. (3 Points)

1. $3x + 2y = 9$
 $x + 3y = 10$

2. $3x - y = 1$
 $2x - 4y = -16$

3. $3x - 2y = 7$
 $x - 5y = -2$

4. $3x + 2y = 16$
 $4x - 5y = 6$

5. $5x + 2y = 6$
 $3x + 5y = 15$

6. $2x + 3y = 10$
 $3x - 4y = -19$

7. $3x - 6y = -3$
 $2x + 4y = 30$

8. $3x - 3y = -15$
 $4x - 2y = -19$

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

Points (24) _____

State the dimensions of each matrix. (2 Points)

7. $\begin{bmatrix} -2 & 5 & 6 \\ 4 & -1 & 7 \end{bmatrix}$

8. $\begin{bmatrix} -20 \\ 16 \\ 9 \end{bmatrix}$

7. _____

Perform the indicated matrix operations. (3 Points)

9. $\begin{bmatrix} 1 & 5 & -3 \\ 4 & -3 & 7 \end{bmatrix} + \begin{bmatrix} 6 & -2 & 3 \\ 1 & 8 & 5 \end{bmatrix}$

10. $\begin{bmatrix} 3 & 4 \\ -5 & 4 \end{bmatrix} + \begin{bmatrix} -1 & 6 \\ -7 & 6 \end{bmatrix}$

8. _____

9. _____

10. _____

11. $\begin{bmatrix} 4 & 7 & -3 \\ 5 & -6 & 4 \end{bmatrix} - \begin{bmatrix} 5 & -3 & 1 \\ 0 & 6 & 2 \end{bmatrix}$

12. $\begin{bmatrix} 2 & 3 \\ -1 & -2 \end{bmatrix} - \begin{bmatrix} -9 & 3 \\ -2 & 7 \end{bmatrix}$

11. _____

12. _____

13. _____

14. _____

13. $2 \begin{bmatrix} 2 & 5 & -2 \\ 3 & -4 & 6 \end{bmatrix}$

14. $3 \begin{bmatrix} 4 & 5 \\ -3 & 1 \end{bmatrix} - \begin{bmatrix} -7 & 6 \\ -2 & 9 \end{bmatrix}$

Points (22) _____