

## 4-6 Matrices 3

Name \_\_\_\_\_

**Show the matrix multiplication equation for each and then use your calculator to solve each.**

1. 
$$\begin{aligned} 2x + 3y &= 22 \\ 3x - y &= 0 \end{aligned}$$

2. 
$$\begin{aligned} 4n + 7b &= 18 \\ 2n + 5b &= 12 \end{aligned}$$

3. 
$$\begin{aligned} 2x + 3y - z &= 15 \\ 3x - 5y + z &= 6 \\ x + y + 3z &= 10 \end{aligned}$$

4. 
$$\begin{aligned} 2n + y + z &= 7 \\ n + 3y + 2z &= 13 \\ 3n - 2y - 2z &= -7 \end{aligned}$$

5. 
$$\begin{aligned} x + y - z &= 9 \\ 2x + y + 2z &= 14 \\ x - 3y - 2z &= -7 \end{aligned}$$

6. 
$$\begin{aligned} 2a + b + 3c + d &= 20 \\ a + 3b - 2c + d &= 24 \\ a + b + c + d &= 17 \\ 2a + 2b + 2c - 5d &= -36 \end{aligned}$$

521  
123