In Problems 1-4, write the augmented matrix for each system of linear equations.

1.	2.
$4x - y + z = 3$ $5x + 2y - 7z = 1$ $3x + y - 2z = -3$	$3x + y + 8z = -2$ $3y - 5z = -5$ $3z = 9$
3.	4.
$7x + 2y - z = -8$ $3x \quad + 5z = -1$ $4x - 3y - z = -11$	$5w + 2x - 4y + z = 8$ $2w - x - 3y - 4z = -1$ $8w + 4x + y - z = -5$ $-4w - x - y + 2z = 3$

In Problems 5-6, write the system of linear equations represented by the augmented matrix. Use x, y, and z, or if necessary, w, x, y, and z, for the variables.

5.	6.
$\begin{bmatrix} 2 & -1 & 0 & -3 \\ 5 & 2 & 1 & -7 \\ 7 & -1 & -2 & 3 \end{bmatrix}$	$\begin{bmatrix} 2 & 1 & 0 & 3 & -4 \\ 1 & -5 & 2 & 0 & 2 \\ 0 & 1 & 3 & -8 & -5 \\ 2 & 0 & -3 & -4 & -8 \end{bmatrix}$

In Problems 7-11, solve each system of equations using matrices.

7.	8.
$5x - 6y - 7z = -4$ $6x + 3y - 3z = -9$ $x - 6y + 3z = 22$	$7x + 2y + 3z = 6$ $8x - y = 17$ $6x - y - 5z = 23$
9.	10.
$x + y + 2z = -4$ $4x + y + 2z = 5$ $5x + 2y + 2z = 9$	$x - 3y + 4z = -8$ $2x + y + z = -5$ $3x - 4y + z = -1$

11.

$$w - 2x + y - z = -3$$
$$2w - x + 3y - z = 4$$
$$3w + x - 2y - 4z = -1$$
$$4w - x - y + 5z = -2$$