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Find the inverses of the following matrices (if they exist).

[a]
$$\begin{bmatrix} 5 & 11 \\ 7 & 17 \end{bmatrix}$$

[b]
$$\begin{bmatrix} 10 & -35 \\ 6 & -21 \end{bmatrix}$$

$$\begin{bmatrix} 1 & -1 & 0 \\ 1 & 0 & -1 \\ 6 & -2 & -3 \end{bmatrix}$$

$$\begin{bmatrix} 3 & -7 & 5 \\ -1 & 0 & 4 \end{bmatrix}$$

$$\begin{bmatrix} 1 & 2 & 1 \\ 2 & 5 & 5 \\ -3 & -5 & 1 \end{bmatrix}$$

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Use inverse matrices to solve the following systems.

[a]
$$4x + 7y = 12$$
$$5x + 8y = -6$$

[b]
$$7x + 11y = 3$$
$$5x + 7y = 1$$

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