

EE 2240
Problem #02

Write the following set of equations in matrix form.

$$17a - 3b = 2, \quad b = a + 4$$

Rearranging terms in the second equation, we have:

$$a - b = -4$$

In matrix form:

$$\begin{bmatrix} 17 & -3 \\ 1 & -1 \end{bmatrix} \begin{bmatrix} a \\ b \end{bmatrix} = \begin{bmatrix} 2 \\ -4 \end{bmatrix}$$