



Example

Illustrate the idea of "**b** as a linear combination of the columns of **A**" for the following system:

$$x_1 + 2x_2 + 3x_3 = 0$$

$$4x_1 + 5x_2 + 6x_3 = 3$$

$$7x_1 + 8x_2 + 9x_3 = 6$$