



(3)

$$x_1 = 3 - 2 x_3$$

$$x_1 = 3 - 2 x_3 = \begin{bmatrix} 3 \\ 2x_2 = 3 \\ 2x_3 = 0 + 2x_3 \\ 2x_4 = 1 + 0.x_3 \end{bmatrix} = \begin{bmatrix} 3 \\ 3 \\ -2 \\ 1 \end{bmatrix}$$
 $x_4 = 1 + 0.x_3$
 $x_5 = 0 + 2x_5$
 $x_6 = 10 + 2x_5$
 $x_7 = 10 + 2x_7$

Check:
$$A\bar{u} = \begin{bmatrix} 0 & 5 & 10 & 8 \\ 1 & 2 & 6 & 7 \end{bmatrix} \begin{bmatrix} 3 \\ 3 \\ 2 & 4 & 12 & 6 \end{bmatrix} \begin{bmatrix} 3 \\ 0 \\ 1 \end{bmatrix} = \begin{bmatrix} 23 \\ 16 \\ 24 \end{bmatrix}$$

So: i is a solution of A TI = I and I is a solution of A x = 0 (See notes for MON: 0814)

Abor A (u+x36) = Ar Au+x3AG

Infinitely many solutions.