

Practice the tricks of the trade on the following examples. Also practice putting the general solutions into vector form.

$$(1) \quad A = \begin{bmatrix} 0 & 3 & -6 & 6 & 4 & 5 \\ 3 & -7 & 8 & -5 & 8 & 9 \\ 3 & -9 & 12 & -9 & 6 & 15 \end{bmatrix}$$

$$(2) \quad B = \begin{bmatrix} -2 & 4 & 5 & -5 & 3 \\ 1 & -2 & -1 & 3 & 0 \\ 3 & -6 & -6 & 8 & 2 \end{bmatrix}$$

$$(3) \quad C = \begin{bmatrix} 0 & 2 & 2 & 0 & 0 \\ 1 & 5 & 5 & -2 & -3 \\ 0 & 8 & 9 & 3 & -4 \\ -2 & 3 & 2 & 1 & 10 \end{bmatrix}$$