

MATH 215
Practice

Solve the given systems of equations and represent your solution in parametric vector form $x = s \cdot u + t \cdot v$. (section 1.5 pages 45-47).

$$2x_1 - 4x_2 - 4x_3 = 0$$

$$2x_1 - 4x_2 - 4x_3 = 6$$

Represent the linear system as a vector equation and matrix equation. Solve the system and represent your solution in parametric vector form.

$$\begin{aligned}x_1 - 2x_2 + 7x_3 &= 6 \\-2x_1 + 4x_2 + 6x_3 &= 8 \\3x_1 - 6x_2 - 9x_3 &= -12\end{aligned}$$