

Sistema de ecuaciones lineales 3x3

Bif Planet

Solución Método Sustitución

$$\textcircled{3} \quad 2x - 5y + 3w = 17$$

$$\textcircled{2} \quad 23y - 11w = -9$$

$$\textcircled{1} \quad -86w = -430$$

Sistema triangular

$$\textcircled{1} \quad -86w = -430$$

$$w = \frac{-430}{-86}$$

$$w = \underline{\underline{5}}$$

$$\textcircled{2} \quad 23y - 11w = -9$$

$$23y - 11(5) = -9$$

$$23y - 55 = -9$$

$$23y = -9 + 55$$

$$y = \frac{46}{23}$$

$$y = \underline{\underline{2}}$$

$$\textcircled{3} \quad 2x - 5y + 3w = 17$$

$$2x - 5(2) + 3(5) = 17$$

$$2x - 10 + 15 = 17$$

$$2x + 5 = 17$$

$$2x = 17 - 5$$

$$2x = 12$$

$$x = \frac{12}{2}$$

$$x = \underline{\underline{6}}$$