

# Sistema de ecuaciones lineales 3x3 Bit Planet

## Solución Metodo Sustitución

$$\textcircled{3} 2x + 3y - 4z = -8$$

$$\textcircled{2} 13y - 8z = 2$$

$$\textcircled{1} 3z = 15$$

→ Sistema triangular

$$\textcircled{1} 3z = 15$$

$$z = \frac{15}{3} = 5 //$$

$$\textcircled{2} 13y - 8z = 2$$

$$13y - 8(5) = 2$$

$$13y - 40 = 2$$

$$13y = 2 + 40$$

$$13y = 42$$

$$y = \frac{42}{13} //$$

$$\textcircled{3} 2x + 3y - 4z = -8$$

$$2x + 3\left(\frac{42}{13}\right) - 4(5) = -8$$

$$2x + \frac{126}{13} - 20 = -8$$

$$2x + \frac{126}{13} = -8 + 20$$

$$x = \frac{15}{13} //$$

$$2x + \frac{126}{13} = 12$$

$$2x = 12 - \frac{126}{13}$$

$$2x = \frac{30}{13}$$

$$x = \frac{\frac{30}{13}}{2}$$