

$$7x + 4y = 13$$

$$5x - 2y = 19$$

$$\textcircled{1} \quad 7x = 13 - 4y$$

$$x = \frac{13 - 4y}{7}$$

$$5x = \frac{19 + 2y}{5}$$

$$x = \frac{19 + 2y}{5}$$

$$\frac{13 - 4y}{7} = \frac{19 + 2y}{5}$$

$$65 - 20y = 133 + 14y$$

$$-20y - 14y = 133 - 65$$

$$-34y = 68$$

$$y = \frac{68}{-34}$$

$$y = -2$$

$$5x - 2(-2) = 19$$

$$5x + 4 = 19$$

$$5x = 19 - 4$$

$$x = \frac{15}{5}$$

$$x = 3$$

$$7x = 13 - 4y$$

$$x = \frac{13 - 4y}{7}$$

$$5\left(\frac{13 - 4y}{7}\right) - 2y = 19$$

$$\frac{65 - 20y}{7} - 2y = 19$$

$$65 - 20y - 14y = 133$$

$$-20y - 14y = 133 - 65$$

$$-34y = 68$$

$$y = \frac{68}{-34}$$

$$y = -2$$

$$5x - 2(-2) = 19$$

$$5x + 4 = 19$$

$$5x = 19 - 4$$

$$x = \frac{15}{5}$$

$$x = 3$$

$$7x + 4y = 13$$

$$5x - 2y = 19$$

$$\Delta = \begin{vmatrix} 7 & 4 \\ 5 & -2 \end{vmatrix} = -14 - 20 = -34$$

$$x = \frac{\begin{vmatrix} 13 & 4 \\ 19 & -2 \end{vmatrix}}{-34} = \frac{-26 - 76}{-34} = \frac{-102}{-34} = 3$$

$$y = \frac{\begin{vmatrix} 7 & 13 \\ 5 & 19 \end{vmatrix}}{-34} = \frac{133 - 65}{-34} = \frac{68}{-34} = -2$$

$$7x + 4y = 13 \quad (1)$$

$$5x - 2y = 19 \quad (2)$$

$$20y - 14y = 133 - 65$$

$$-34y = 68$$

$$y = \frac{68}{-34}$$

$$y = -2$$

$$5x - 2(-2) = 19$$

$$5x + 4 = 19$$

$$5x = 19 - 4$$

$$5x = 15$$

$$x = \frac{15}{5}$$

$$x = 3$$