

Soal-soal Tentang Sistem Persamaan Linier Dua Variabel (SPLDV) Beserta Jawabannya

1.  $x + y = 1$  dan  $x - y = 1$

Jawaban

$$\begin{array}{r} x + y = 1 \\ \hline x - y = 1 \end{array} +$$
$$2x = 2$$
$$x = 1$$

$$x + y = 1$$
$$1 + y = 1$$
$$y = 0$$

2.  $2x - y = 4$  dan  $5x - y = 13$

Jawaban

$$\begin{array}{r} 2x - y = 4 \quad \text{Kalikan 5} \quad 10x - 5y = 20 \\ \hline 5x - y = 13 \quad \text{Kalikan 2} \quad 10x - 2y = 26 \end{array} -$$
$$-3y = -6$$
$$y = -\frac{6}{3}$$
$$y = -2$$

$$2x - y = 4$$
$$2x - 2 = 4$$
$$2x = 4 + 2$$
$$x = \frac{6}{2}$$
$$x = 3$$

3.  $x - 3y = 7$  dan  $2x + y = 7$

Jawaban

$$\begin{array}{r} \frac{x - 3y = 7}{2x + y = 7} \quad \frac{\text{Kalikan } 2}{\text{kalikan } 1} \quad \frac{2x - 6y = 14}{2x + y = 7} \quad - \\ \hline 7y = 7 \\ y = 1 \end{array}$$

$$\begin{array}{r} \frac{x - 3y = 7}{2x + y = 7} \quad \frac{\text{Kalikan } 1}{\text{kalikan } 3} \quad \frac{x - 3y = 7}{6x + 3y = 21} \quad + \\ \hline 7x = 28 \\ y = 4 \end{array}$$

4.  $2x - y = 3$  dan  $3x - 4y = 7$

Jawaban

$$\begin{array}{r} \frac{2x - y = 3}{3x - 4y = 7} \quad \frac{\text{Kalikan } 3}{\text{Kalikan } 2} \quad \frac{6x - 3y = 9}{6x - 8y = 14} \quad - \\ \hline 5y = -5 \\ y = -1 \end{array}$$

$$\begin{array}{r} \frac{2x - y = 3}{3x - 4y = 7} \quad \frac{\text{Kalikan } 4}{\text{Kalikan } 1} \quad \frac{8x - 4y = 12}{3x - 4y = 7} \quad - \\ \hline 5x = 5 \\ x = 1 \end{array}$$