

SOAL 1

$$f(x) = 2x + m$$

$$f(3) = 4$$

$$\begin{aligned}x &= \underline{\hspace{1cm}} \rightarrow 2(\underline{\hspace{1cm}}) + m = \underline{\hspace{1cm}} \\&\quad \underline{\hspace{1cm}} + m = \underline{\hspace{1cm}} \\&\quad \quad m = \underline{\hspace{1cm}} - \underline{\hspace{1cm}} \\&\quad \quad m = \underline{\hspace{1cm}}\end{aligned}$$

Jadi, bentuk fungsinya adalah : $2x + \underline{\hspace{1cm}}$

SOAL 2

$$f(x) = ax + b$$

Substitusi nilai x dan f(x) ke persamaan di atas :

$$f(1) = 3 \rightarrow \underline{\hspace{1cm}} a + b = \underline{\hspace{1cm}} \dots (1)$$

$$f(2) = 5 \rightarrow \underline{\hspace{1cm}} a + b = \underline{\hspace{1cm}} \dots (2)$$

Eliminasi b dari persamaan (1) dan (2) :

$$\begin{aligned}\underline{\hspace{1cm}} a + b &= \underline{\hspace{1cm}} \\ \underline{\hspace{1cm}} a + b &= \underline{\hspace{1cm}} \\ \hline &- \\ \underline{\hspace{1cm}} a &= \underline{\hspace{1cm}} \\ a &= \underline{\hspace{1cm}}\end{aligned}$$

Substitusi a ke persamaan (1)

$$\begin{aligned}a &= \underline{\hspace{1cm}} \rightarrow \underline{\hspace{1cm}} (\underline{\hspace{1cm}}) + b = \underline{\hspace{1cm}} \\&\quad \underline{\hspace{1cm}} + b = \underline{\hspace{1cm}} \\&\quad \quad b = \underline{\hspace{1cm}} - \underline{\hspace{1cm}} \\&\quad \quad b = \underline{\hspace{1cm}}\end{aligned}$$

Jadi, bentuk fungsinya adalah : $f(x) = \underline{\hspace{1cm}} x + \underline{\hspace{1cm}}$

SOAL 3

$$g(x) = ax + b$$

Substitusi nilai x dan f(x) ke persamaan di atas :

$$g(-2) = 0 \rightarrow \underline{\hspace{1cm}} a + b = \underline{\hspace{1cm}} \dots (1)$$

$$g(1) = 3 \rightarrow \underline{\hspace{1cm}} a + b = \underline{\hspace{1cm}} \dots (2)$$

Eliminasi b dari persamaan (1) dan (2) :

$$\underline{\hspace{1cm}} a + b = \underline{\hspace{1cm}}$$

$$\underline{\hspace{1cm}} a + b = \underline{\hspace{1cm}}$$

$$\underline{\hspace{1cm}} - \underline{\hspace{1cm}}$$

$$\underline{\hspace{1cm}} a = \underline{\hspace{1cm}}$$

$$a = \underline{\hspace{1cm}}$$

Substitusi a ke persamaan (1)

$$a = \underline{\hspace{1cm}} \rightarrow \underline{\hspace{1cm}} (\underline{\hspace{1cm}}) + b = \underline{\hspace{1cm}}$$

$$\underline{\hspace{1cm}} + b = \underline{\hspace{1cm}}$$

$$b = \underline{\hspace{1cm}} - \underline{\hspace{1cm}}$$

$$b = \underline{\hspace{1cm}}$$

Jadi, bentuk fungsinya adalah : $g(x) = \underline{\hspace{1cm}} x + \underline{\hspace{1cm}}$

SOAL 4

$$h(x) = px + b$$

Substitusi nilai x dan f(x) ke persamaan di atas :

$$h(3) = 5 \rightarrow \quad p + q = \quad \dots (1)$$

$$h(1) = -3 \rightarrow \quad p + q = \quad \dots (2)$$

Eliminasi q dari persamaan (1) dan (2) :

$$\quad p + q = \quad$$

$$\quad p + q = \quad$$

$$\underline{\hspace{2cm}} -$$

$$\quad p = \quad$$

$$p = \quad$$

Substitusi p ke persamaan (1)

$$p = \quad \rightarrow \quad (\quad) + q = \quad$$

$$\quad + q = \quad$$

$$q = \quad - \quad$$

$$q = \quad$$

Jadi, bentuk fungsinya adalah : $h(x) = \quad x + \quad$