



FUNGSI

1. Nyatakan domain, kodomain, objek, imej, dan julat bagi hubungan $\{(3,6), (6,13), (7,16), (8,16)\}$

Domain:

Kodomain:

Objek:

Imej:

Julat:

2. Diberi $g: x \rightarrow 3x + 2$, cari imej bagi $x = -4$

$$g(x) = 3x + 2$$

$$g(-4) = 3(\text{ }) + 2$$

$$g(-4) = \text{ } + 2$$

$$g(-4) = -10$$

3. Diberi $h: x \rightarrow \frac{5x+3}{2}$, cari nilai bagi $h(-3)$

$$h(x) = \frac{5x+3}{2}$$

$$h(-3) = \frac{5(\text{ }) + 3}{2}$$

$$h(-3) = \text{ }$$

4. Diberi $f: x \rightarrow \frac{x-3}{2}$, cari nilai x apabila $h(x) = 2x$

$$h(x) = 2x$$

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

$$x - 3 = \text{ }$$

$$4x - x = \text{ }$$

$$x = -1$$





FUNGSI

5. Cari fungsi gubahan $fg(x)$ bagi $f(x) = 2x + 3$ dan $g(x) = 1 - x$

$$\begin{aligned} fg(x) &= f(\text{ }) \\ &= 2(1 - x) + 3 \\ &= \text{ } \end{aligned}$$

6. Cari fungsi gubahan $gf(x)$ bagi $f(x) = 2x + 3$ dan $g(x) = 1 - x$

$$\begin{aligned} gf(x) &= g(2x + 3) \\ &= 1 - (\text{ }) \\ &= \text{ } \end{aligned}$$

7. $h(x) = \frac{7-4x}{3}$, cari $h^{-1}(6)$

$$\begin{aligned} h^{-1}(6) &= y \\ h(y) &= 6 \\ \frac{7-4y}{3} &= 6 \\ \text{ } &= 18 \\ y &= \text{ } \end{aligned}$$

