

Post-test

Matematika

Fungsi Fase D

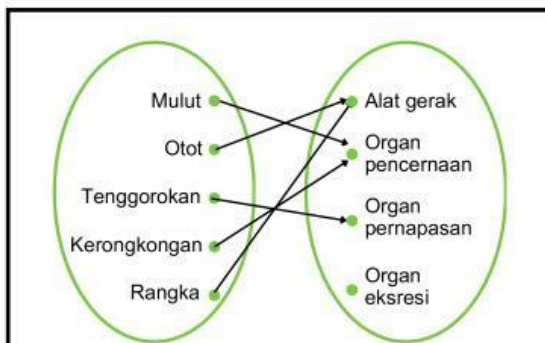
Nama: _____

Kelas: _____

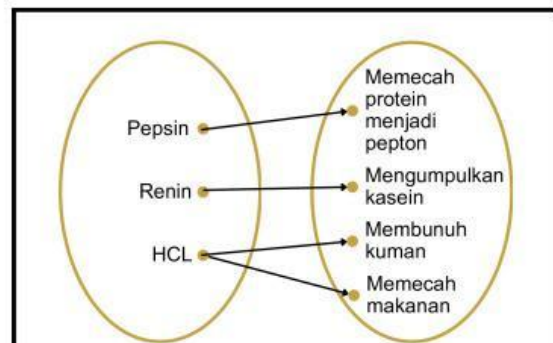


1

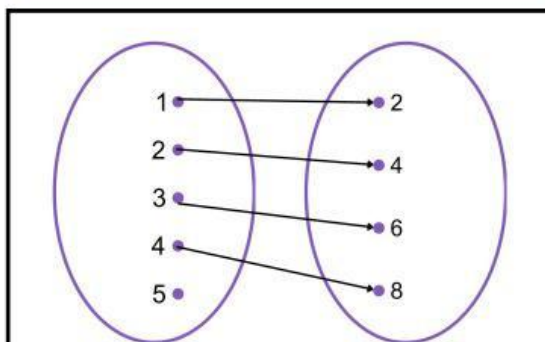
Perhatikan diagram panah berikut ini, kemudian analisislah setiap diagram apakah termasuk fungsi atau bukan fungsi, berikan alasannya



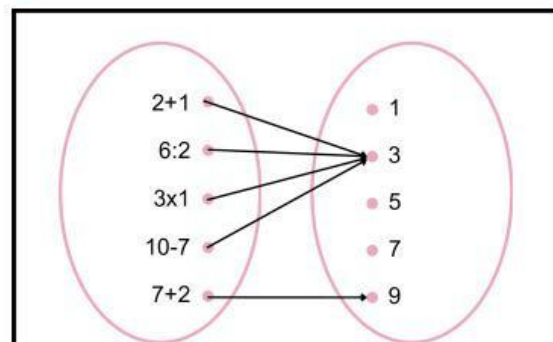
Alasan



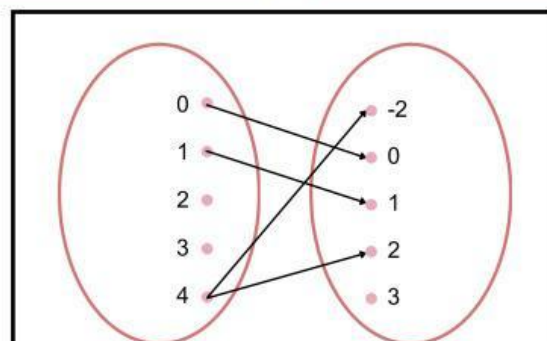
Alasan



Alasan



Alasan



Alasan

2

Diketahui himpunan $R = \{x \mid 1 < x \leq 9, x \text{ bilangan ganjil}\}$
 $S = \{z \mid 4 \leq z \leq 16, z \text{ bilangan genap}\}$

Jika fungsi $f : R \rightarrow S$ ditentukan oleh rumus $f(x) = 2x - 2$

- Tuliskan domain, kodomain, dan rangenya dari fungsi f
- Sajikan fungsi tersebut dalam diagram panah, himpunan pasangan berurutan, tabel, dan grafik

Terlebih dahulu sebutkan anggota himpunan R dan S

Himpunan R

$$R = \{\dots, \dots, \dots, \dots\}$$

Himpunan S

$$S = \{\dots, \dots, \dots, \dots, \dots, \dots, \dots\}$$

Cari nilai $f(x)$

$$x = 3 \rightarrow f(3) = 2 \cdot 3 - 2 = 4$$

$$x = \dots \rightarrow f(\dots) = \quad =$$

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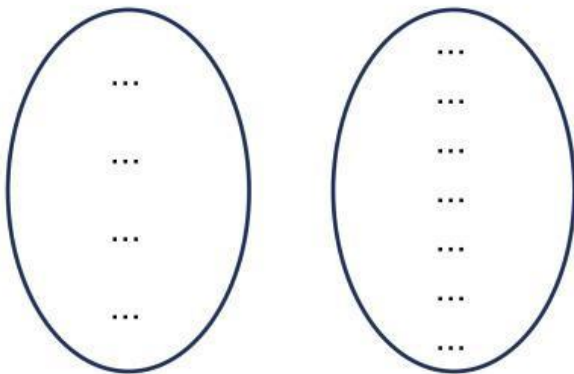
$$x = \dots \rightarrow f(\dots) = \quad =$$

$$\text{Domain} = \{\dots, \dots, \dots, \dots\}$$

$$\text{Kodomain} = \{\dots, \dots, \dots, \dots, \dots, \dots\}$$

$$\text{Range} = \{\dots, \dots, \dots, \dots\}$$

a. Diagram Panah



b. himpunan Pasangan Berurutan

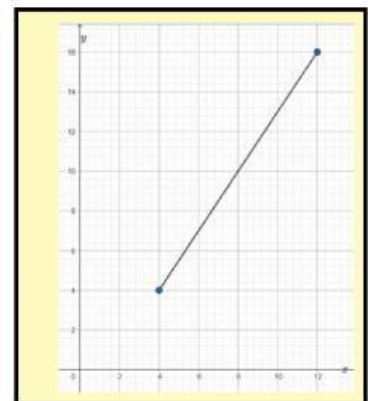
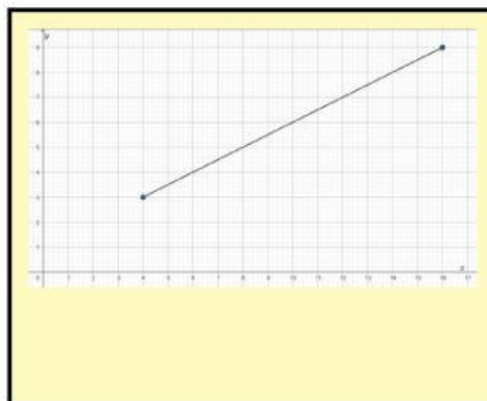
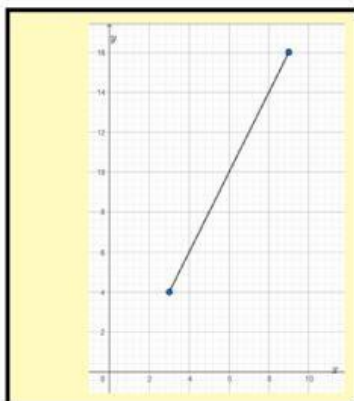
$$f = \{\dots; \dots; \dots; \dots\}$$

c. Tabel

x				
f(x)				

d. Grafik

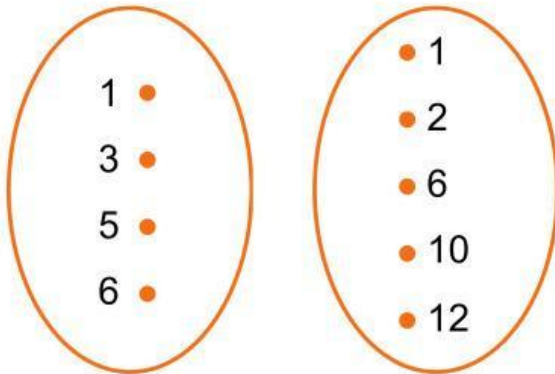
Pilihlah grafik yang paling tepat



3

Tentukan Domain, Kodomain, dan Range dari fungsi-fungsi berikut

a.

A Setengah dari **B**

Domain = {..., ..., ..., ...}

Kodomain = {..., ..., ..., ..., ...}

Range = {..., ..., ..., ...}

b. $f = \{(1, a); (2, d); (3, c); (4, b); (5, a)\}$

Domain = {..., ..., ..., ..., ...}

Kodomain = {..., ..., ..., ..., ...}

Range = {..., ..., ..., ...}

c.

x	Epidermis	Mesofil	Xilem	Kolenkim
f(x)	Melindungi	Fotosintesis	Mengangkut air	Menyokong

Domain = {.....,,,,}

Kodomain = {.....,,,,}

Range = {.....,,,,}