10 UASA

Graf Fungsi
Graphs of Functions

Skor

24

Bahagian A

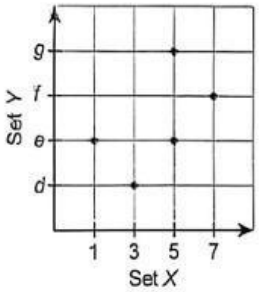
1. Rajah di bawah menunjukkan set pasangan bertertib yang menunjukkan hubungan antara dua set.
The diagram below shows the set of ordered pairs representing a relation between two sets.

{(2, 5), (3, 7), (4, 9), (5, 11)}

Nyatakan imej bagi 5. SK 8.1 TP 2
State the image of 5.

A 2 **C** 9
B 7 **D** 11

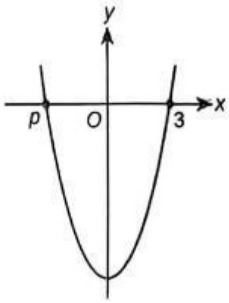
2. Rajah di bawah menunjukkan satu hubungan yang memetakan set *X* kepada set *Y*.
The diagram below shows a relation that maps set X to set Y.



Nyatakan jenis hubungan. SK 8.1 TP 2
State the type of relation.

A Hubungan satu kepada satu
One-to-one relation
B Hubungan satu kepada banyak
One-to-many relation
C Hubungan banyak kepada satu
Many-to-one relation
D Hubungan banyak kepada banyak
Many-to-many relation

3. Rajah di bawah menunjukkan graf bagi fungsi $y = x^2 - 9$.
The diagram below shows the graph of function $y = x^2 - 9$.



Cari nilai *p*. SK 8.2 TP 3
Find the value of p.

A −2
B −3
C −4
D −5

4. Jadual di bawah menunjukkan nilai bagi suatu fungsi.
The table below shows the values of a function.

x	0	1	2	3
y	1	3	17	55

Antara yang berikut, yang manakah mewakili fungsi itu? SK 8.2 TP 3
Which of the following represents the function?

A $y = 2x + 1$
B $y = 2x^2 + 1$
C $y = 2x^3 + 1$
D $y = \frac{x}{2} + 1$

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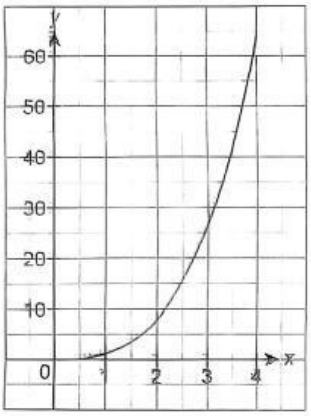
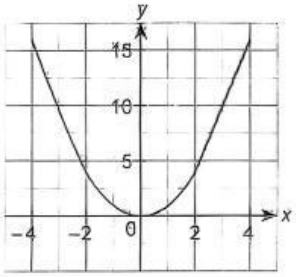
5. Rajah di bawah menunjukkan graf bagi suatu fungsi.
The diagram below shows the graph of a function.



Tentukan nilai x apabila $y = 36$. SK 8.2 TP 2
Determine the value of x when $y = 36$.

A 3.0
B 3.3
C 3.5
D 3.8

6. Rajah di bawah menunjukkan graf bagi suatu fungsi.
The diagram below shows the graph of a function.



Tentukan fungsi itu. SK 8.2 TP 2
Determine the function.

A $y = \frac{1}{x}$
B $y = x$
C $y = x^2$
D $y = x^3$

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