

Graf Fungsi

Standard Pembelajaran

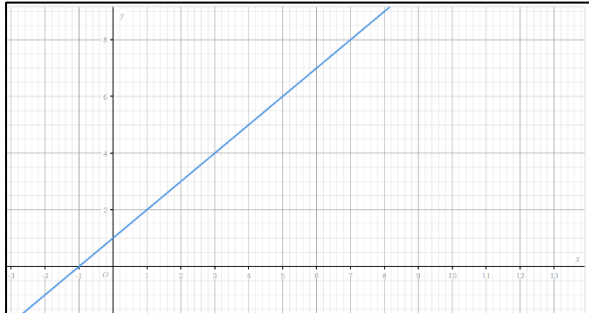
- 8.2.1 Membina jadual nilai bagi fungsi linear dan bukan linear, dan seterusnya melukis graf menggunakan skala yang diberi.
- 8.2.2 Mentafsir graf fungsi.



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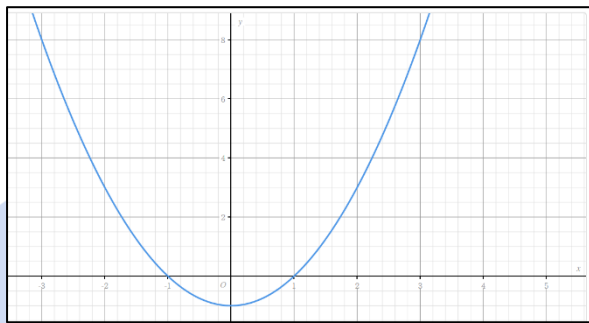
Jenis Graf

Linear



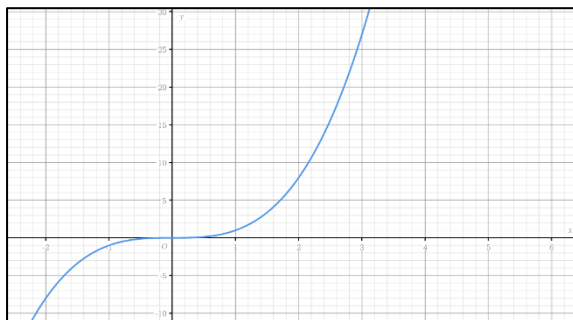
$$y = x + 1$$

Kuadratik



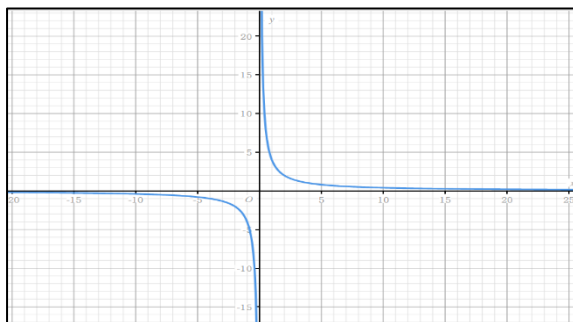
$$y = x^2 - 1$$

Kubik



$$y = x^3$$

Salingan



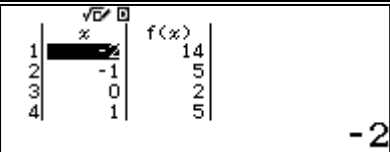
$$y = \frac{4}{x}$$

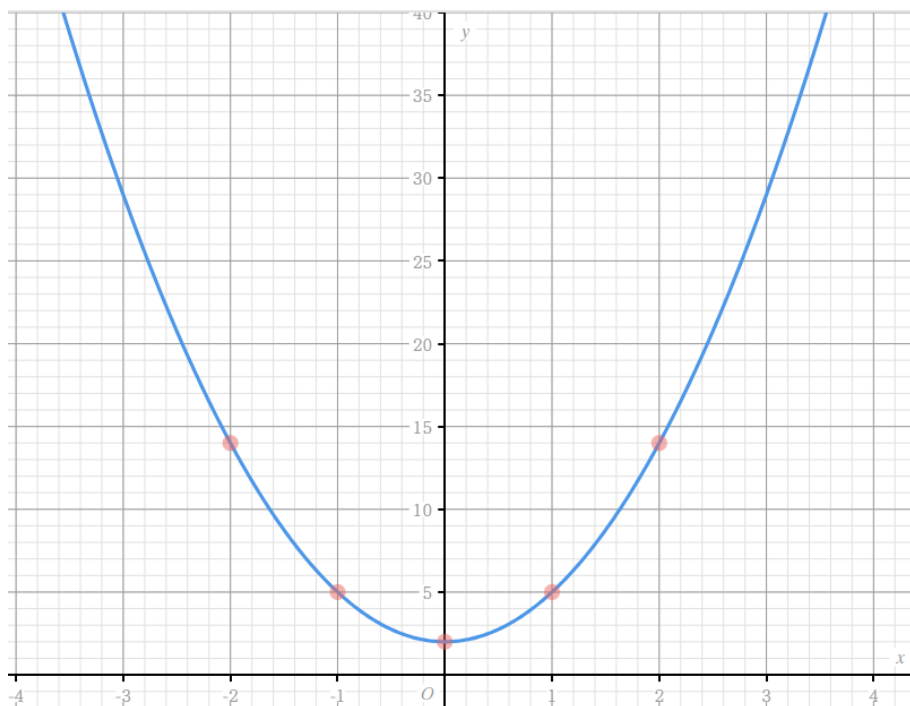
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Plot nilai pada graf berdasarkan persamaan yang diberi.

1) $y = 3x^2 + 2$, $-2 \leq x \leq 2$

x	-2	-1	0	1	2
y	14	5	2	5	14

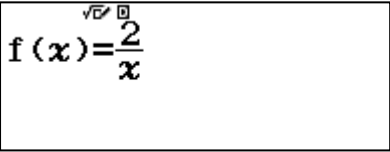
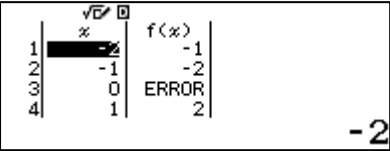
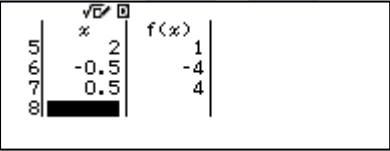
Arahan	Paparan Skrin Kalkulator
MENU 9 [Table]	 9:Table
3 x x² + 2 = =	 54 2x3 ³
(←) 2 = 2 = 1 =	 Table Range Start:-2 End:2 Step:1
=	 -2

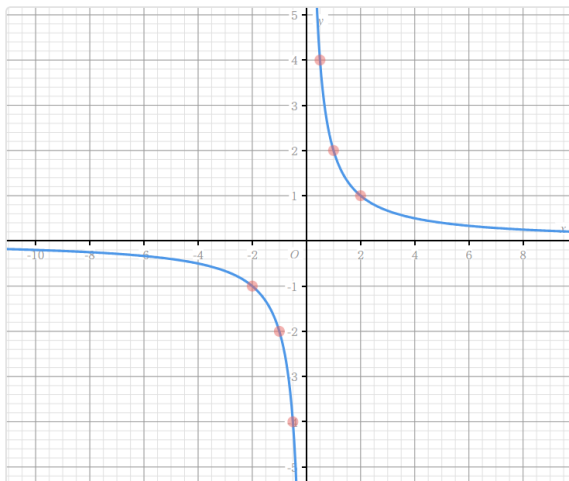


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2) $y = \frac{2}{x} \quad -2 \leq x \leq 2$

x	-2	-1	-0.5	0.5	1	2
y	-1	-2	-4	4	2	1

Arahan	Paparan Skrin Kalkulator
MENU 9 [Table]	
2 ▼ x = =	
(←) 2 = 2 = 1 =	
=	
▼ ▼ ▼ ▼ ▼ (←) 0 □ 5 = 0 □ 5 = Untuk mencari nilai y bagi -0.5 dan 0.5	
SHIFT OPTN Untuk keluaran graf melalui Kod QR	 1/1



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Latihan

Lukiskan graf bagi fungsi-fungsi berikut berdasarkan nilai x yang diberi.

1) $y = x^2 - 6x + 8 \quad -1 \leq x \leq 4$

2) $y = 3x - 6 \quad -2 \leq x \leq 3$

3) $y = \frac{6}{x} \quad 1 \leq x \leq 4$

Lengkapkan nilai dalam jadual berikut.

1) $y = 8 - x^3$

x	-2	-1	0	0.5	1	2
y	16		8			

2) $y = 9 - x^2$

x	-3	-2	-1	0	1	2
y	0		8	9		

3) $y = \frac{5}{x}$

x	-2	-1	-0.5	0.5	1	2
y		-5	10			