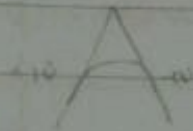


تمارين الباب الواحد ١١
المنحنيات الرأسية



$$x_{9,1} + = 10$$

$$x_{8,2} - = 20$$

$$x_{9,1} = 10 \quad \text{و المنحني مقعر : } x_{8,2} = 20$$

$$L = \frac{10 - 20}{-1} = \frac{-10}{-1} = 10$$

مع ثبوت معدل التغير في التردد (م)

$$L = 20$$

يراد زيادة ل = 20 م بشرط تعديل كلا المتغيرين

$$x_{9,1} + = 10$$

متساويين في القيمة ومختلفين في التردد

$$x_{8,2} - = 20$$

$$L = \frac{10 - 20}{-1} = \frac{-10}{-1} = 10$$

$$x_{9,1} = 10$$

$$x_{8,2} = 20$$

$$L = 20$$

$$L = \frac{10 - 20}{-1} = \frac{-10}{-1} = 10$$

$$x_{9,1} = 10$$

$$x_{9,1} - = 10$$

$$L = 20$$

$$x_{9,1} + = 10$$

$$L = 20$$

$$L = 20$$

$$L = 20$$

$$L = 20$$

$$L = 20$$

$$L = 20$$

$$X_0 = (0.1) \times 1000 = 100 \quad (1)$$

$$10 = (0.1) \times 1000 = 100 \quad (2)$$

substituting all values

$$CV_d = 100 + 2 \times 100 = 300 \quad (3)$$

$$CV_d = 300 + 100 = 400 \quad (4)$$

substituting all

$$CV_d N_0 = X_0 - CV_d \delta = 1000 - 400 = 600 \quad (5)$$

substituting all values in (5) (*)

$$0 = 100 - CV_d = 100$$

$$\delta = 100 = 1$$

$$\delta = 1 \times 1 = 1 \times 1 = 1$$

$$0 = 100 - 100 = 0$$

$$0 = 100 - 100 = 0$$

$$100 = 100 - \frac{100 - 100}{1} = 1 \times 1 = 1$$

حساب القسط الشهري

حساب القسط الشهري = $\frac{10000}{12} \times \frac{1}{1 - \frac{1}{(1 + \frac{0.05}{12})^{12 \times 5}}}$

$$11 - 100$$

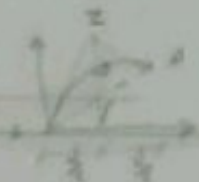
$$\times \frac{1}{12} = 833.33$$

$$833.33 = 8$$

$$1111.11 = 2$$

~~على~~

$$= \frac{10000}{12} \times \frac{1}{1 - \frac{1}{(1 + \frac{0.05}{12})^{12 \times 5}}} = 1111.11 - 100 = 1011.11$$



$$W_{1,0} = \int_0^1 x^2 dx$$

$$W_{1,0} = 1/3$$

$$170 = C_{1,0} - W_{1,0} = 1/3 - 1/3 = 0$$

$$W_{1,0} = 1/3$$

$$177.2 = C_{1,0} - W_{1,0} = 1/3 - 1/3 = 0$$

$$W_{1,0} = 1/3$$

$$W_{1,0} = (1/3 + 0) \cdot 1/2 = 1/6$$

$$W_{1,0} = 1/3$$

$$W_{1,0} = (1/3 + 1/6) \cdot 1/2 = 1/4$$

$$W_{1,0} = 1/4 - 1/4 = 0$$

$$W_{1,0} = 1/4 - 1/4 = 0$$

$$x^2 + y^2 = 1$$

الفرق الثاني	الفرق الأول	المتوسط مع التفاضل	المتوسط مع التفاضل	P	المتوسط	الفرق
		170	170	0.5	170	0
1.251875	177.251875	177.251875	177.7	1.78125	0.5	1
1.751875	177.751875	177.751875	178.2	1.78125	1.5	2
2.251875	178.251875	178.251875	178.7	1.78125	2.5	3
2.751875	178.751875	178.751875	179.2	1.78125	3.5	4
3.251875	179.251875	179.251875	179.7	1.78125	4.5	5
3.751875	179.751875	179.751875	180.2	1.78125	5.5	6
4.251875	180.251875	180.251875	180.7	1.78125	6.5	7
4.751875	180.751875	180.751875	181.2	1.78125	7.5	8
5.251875	181.251875	181.251875	181.7	1.78125	8.5	9
5.751875	181.751875	181.751875	182.2	1.78125	9.5	10
6.251875	182.251875	182.251875	182.7	1.78125	10.5	11
6.751875	182.751875	182.751875	183.2	1.78125	11.5	12
7.251875	183.251875	183.251875	183.7	1.78125	12.5	13
7.751875	183.751875	183.751875	184.2	1.78125	13.5	14
8.251875	184.251875	184.251875	184.7	1.78125	14.5	15
8.751875	184.751875	184.751875	185.2	1.78125	15.5	16
9.251875	185.251875	185.251875	185.7	1.78125	16.5	17
9.751875	185.751875	185.751875	186.2	1.78125	17.5	18
10.251875	186.251875	186.251875	186.7	1.78125	18.5	19
10.751875	186.751875	186.751875	187.2	1.78125	19.5	20
11.251875	187.251875	187.251875	187.7	1.78125	20.5	21
11.751875	187.751875	187.751875	188.2	1.78125	21.5	22
12.251875	188.251875	188.251875	188.7	1.78125	22.5	23
12.751875	188.751875	188.751875	189.2	1.78125	23.5	24
13.251875	189.251875	189.251875	189.7	1.78125	24.5	25
13.751875	189.751875	189.751875	190.2	1.78125	25.5	26
14.251875	190.251875	190.251875	190.7	1.78125	26.5	27
14.751875	190.751875	190.751875	191.2	1.78125	27.5	28
15.251875	191.251875	191.251875	191.7	1.78125	28.5	29
15.751875	191.751875	191.751875	192.2	1.78125	29.5	30
16.251875	192.251875	192.251875	192.7	1.78125	30.5	31
16.751875	192.751875	192.751875	193.2	1.78125	31.5	32
17.251875	193.251875	193.251875	193.7	1.78125	32.5	33
17.751875	193.751875	193.751875	194.2	1.78125	33.5	34
18.251875	194.251875	194.251875	194.7	1.78125	34.5	35
18.751875	194.751875	194.751875	195.2	1.78125	35.5	36
19.251875	195.251875	195.251875	195.7	1.78125	36.5	37
19.751875	195.751875	195.751875	196.2	1.78125	37.5	38
20.251875	196.251875	196.251875	196.7	1.78125	38.5	39
20.751875	196.751875	196.751875	197.2	1.78125	39.5	40
21.251875	197.251875	197.251875	197.7	1.78125	40.5	41
21.751875	197.751875	197.751875	198.2	1.78125	41.5	42
22.251875	198.251875	198.251875	198.7	1.78125	42.5	43
22.751875	198.751875	198.751875	199.2	1.78125	43.5	44
23.251875	199.251875	199.251875	199.7	1.78125	44.5	45
23.751875	199.751875	199.751875	200.2	1.78125	45.5	46
24.251875	200.251875	200.251875	200.7	1.78125	46.5	47
24.751875	200.751875	200.751875	201.2	1.78125	47.5	48
25.251875	201.251875	201.251875	201.7	1.78125	48.5	49
25.751875	201.751875	201.751875	202.2	1.78125	49.5	50
26.251875	202.251875	202.251875	202.7	1.78125	50.5	51
26.751875	202.751875	202.751875	203.2	1.78125	51.5	52
27.251875	203.251875	203.251875	203.7	1.78125	52.5	53
27.751875	203.751875	203.751875	204.2	1.78125	53.5	54
28.251875	204.251875	204.251875	204.7	1.78125	54.5	55
28.751875	204.751875	204.751875	205.2	1.78125	55.5	56
29.251875	205.251875	205.251875	205.7	1.78125	56.5	57
29.751875	205.751875	205.751875	206.2	1.78125	57.5	58
30.251875	206.251875	206.251875	206.7	1.78125	58.5	59
30.751875	206.751875	206.751875	207.2	1.78125	59.5	60
31.251875	207.251875	207.251875	207.7	1.78125	60.5	61
31.751875	207.751875	207.751875	208.2	1.78125	61.5	62
32.251875	208.251875	208.251875	208.7	1.78125	62.5	63
32.751875	208.751875	208.751875	209.2	1.78125	63.5	64
33.251875	209.251875	209.251875	209.7	1.78125	64.5	65
33.751875	209.751875	209.751875	210.2	1.78125	65.5	66
34.251875	210.251875	210.251875	210.7	1.78125	66.5	67
34.751875	210.751875	210.751875	211.2	1.78125	67.5	68
35.251875	211.251875	211.251875	211.7	1.78125	68.5	69
35.751875	211.751875	211.751875	212.2	1.78125	69.5	70
36.251875	212.251875	212.251875	212.7	1.78125	70.5	71
36.751875	212.751875	212.751875	213.2	1.78125	71.5	72
37.251875	213.251875	213.251875	213.7	1.78125	72.5	73
37.751875	213.751875	213.751875	214.2	1.78125	73.5	74
38.251875	214.251875	214.251875	214.7	1.78125	74.5	75
38.751875	214.751875	214.751875	215.2	1.78125	75.5	76
39.251875	215.251875	215.251875	215.7	1.78125	76.5	77
39.751875	215.751875	215.751875	216.2	1.78125	77.5	78
40.251875	216.251875	216.251875	216.7	1.78125	78.5	79
40.751875	216.751875	216.751875	217.2	1.78125	79.5	80
41.251875	217.251875	217.251875	217.7	1.78125	80.5	81
41.751875	217.751875	217.751875	218.2	1.78125	81.5	82
42.251875	218.251875	218.251875	218.7	1.78125	82.5	83
42.751875	218.751875	218.751875	219.2	1.78125	83.5	84
43.251875	219.251875	219.251875	219.7	1.78125	84.5	85
43.751875	219.751875	219.751875	220.2	1.78125	85.5	86
44.251875	220.251875	220.251875	220.7	1.78125	86.5	87
44.751875	220.751875	220.751875	221.2	1.78125	87.5	88
45.251875	221.251875	221.251875	221.7	1.78125	88.5	89
45.751875	221.751875	221.751875	222.2	1.78125	89.5	90
46.251875	222.251875	222.251875	222.7	1.78125	90.5	91
46.751875	222.751875	222.751875	223.2	1.78125	91.5	92
47.251875	223.251875	223.251875	223.7	1.78125	92.5	93
47.751875	223.751875	223.751875	224.2	1.78125	93.5	94
48.251875	224.251875	224.251875	224.7	1.78125	94.5	95
48.751875	224.751875	224.751875	225.2	1.78125	95.5	96
49.251875	225.251875	225.251875	225.7	1.78125	96.5	97
49.751875	225.751875	225.751875	226.2	1.78125	97.5	98
50.251875	226.251875	226.251875	226.7	1.78125	98.5	99
50.751875	226.751875	226.751875	227.2	1.78125	99.5	100