

Universiti Malaysia Perlis

CENTER FOR DIPLOMA STUDIES

DQT 203 MATHEMATICS 3 ASSIGNMENT

Title	ASSIGNMENT 2
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1	ASSIGNAMENT I
	DOT 203: MATHEMATICS IZI
1.	One incident of Lamicide was Lappened in a small house at Miami Police
	inspector arrived at the crime scene at / o'clock in the exercise
	He fond the don't body on the floor and introductions nearned
	the temperature of the body. The temperature of the body out that
	time is 34.5° (. He then left the body for one hour, Affer
	that, he nearned the temperature again and the temperature
	becomes 33.7° (. Assume that the surrounding temperature is
	27° cand the normal temperative of the body is 37° (.
	Find time of about of the body
	7= 75+ No.
-	To=34.5°C
	1=33.7°C 1=31+J-2=-0.1198+
	75 = 37° C
(DH+ 4=0 37=37+7.2 == 11394
	345= 27+pe-20 7.5 = 0.11282 = 10
	345 = 37 + A
	A=7.5
	-0.1128 f = 0.2874
(3 A7 7=1 + = -2.55 Lowr
	33.7= 27 + Re X (1)
	33.7=27 +7.5e -2.85 hours = 2 hours 33 marker
	7.50-4.6.7
	e" = 0.89133 +3 to.
	- 3 33 - 3 33
-	-K = -0.1/29 , 10: 27 dim
	F511.0=4
-	Time of Spath of the bods: 10 27 am

7.	A corpse nos ducacred in a mobel at midnost and it temperature
	at Hat the war goof The year temperature is 60°F. Two hours
	later the temperature of the rayore dropped to 75°F. Know the
	runal body temperature is alice to the topse
	dath.
	T= T1+ R= +2
	10= 120 £ 1= PO+ 30 6-0 1734)(4)
- 1	7,=60°F
#10 m	0 AA 7=0 (3) = 80+30e -01438+
	9. 8 = +86mio = 20 = 0. 6 = 38.6
	50=60+A = 1-93
	90 = 60+0=101 20 = 0.003 = 38.6 50 = 60+A = 0.00387 = 1.93 A = 20
	-01439 7 = 0.6575
	(D) 87 7=3
	75 = boxpex3
	75 = 60+30 = 2 -4.57 pars = 4 pour 34 marker 13/20
	30-2k = 15
	6 = 0·13
	12e-2x = 12 0.72 - 4 34
To the second	-7/x = -0.58JJ 1d 36
X.	k=0.1439 = 7.26 pm =

· ·	
<u> </u>	A population growth and draw is given by the equation.
	be t onit to attarged att is (E) a salve (E) 43 the
	alt of ratifier larges of the that would trater to the
	equation is P(X) = A e Kt where A is a constant.
	(4)9 × 91
	18 = K P(x)
	J 29 = (x 27)
	1 1 1 P C 4) 1 = K + C
	P(=) = Aek+ ; A:e
6110	
6	

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17,	In 1990, the Department of Northan Resources releases 1000
	Fish into a take. In 1919, the population of the fish was
	estimated to be 3000. By assuming no other factor affect
	the population estimate the number of Fish is year 2000.
	P(0): 1(0)
	P(7): 3000
	5 3 (01) 9
	OA7 7=0
	DAT 7=0 P= Par + >1 2 (100) = 1
	+ × 2 cool =
	@ R7 7=7
	9 = Act 2 3000 - 1000 ct 7
	3000 - 1000 - 4006
	2×7 = 3
	FJ: 1~ 3
	7K = /2 3
	K= 1~3
	7
	K= 0.1569
	3 R7 7=10
	PC10): Per (0.1767)(10)
	= 1000 €
	= 1000 CA. 203)
	= 4801.84
	= 4801 Fisher