KEMENTERIA PENDIDIKAN MALAYSIA

POLITEKNIK MALAYSIA

JABATAN MATEMATIK, SAINS DAN KOMPUTER

NAME	Alexander Hee Chun Fu	COURSE CODE/ COURSE NAME		DBM2033 DISCRETE MATHEMATICS	
REGISTRATION NO.	05DDT18F1038	COURSEWORK ASSESSMENT		QUIZ 1	
PROGRAMME/ SECTION	DDT2B	SESSION		DECEMBER 2018	
		DURATION	15 MINS	CLO1	10 MARKS
				CLO2	
				CLO3	
		TOTAL MARKS		10 MARKS	

Instructions

- Answer ALL questions. Write your answers in the spaces provided.
- Show your working to get marks. You may use a non-programmable scientific calculator.

Question 1

CLO2, C2 [5 marks]

If $X = \{a, e, i, o, u\}$ and $Y = \{a, b, c, d, e\}$.

(a) Identify $Y - X$.

(b) Given the universal set $U = \{a, b, c, d, e, f, g, i, o, u, z\}$. What is the complement of $X \cup Y$?

(c) Is set X and Y disjoint sets? Explain your answer.

Question 2

CLO2, C3 [5 marks]

Given function $f(x) = 4x - 1$. The domain for the function is $\{-1, 0, 1\}$.

(a) Identify the range for $f(x)$.

(b) Is the function f one-to-one? Explain your answer.

(c) What is the inverse function for the function above?

Alexander Hee Chun F4

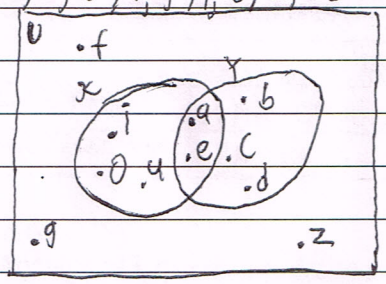
05DDT18F1038

Subject: No: Date:

1.

a. ~~Y~~ $Y = \{b, c, d\}$ (1)

b. $U = \{a, b, c, d, e, f, g, i, o, u, z\}$



$X \cup Y = \{a, b, c, d, e, i, o, u\}$ (1) so?

c. Set x and set Y is not ~~disjoint~~ set. because ~~set x~~ have ~~elemes~~ elements $\{a, e\}$ in set x and set Y. (2)

2.

a) $f(x) = 4x - 1$

$f(0) = 4(0) - 1 = 0 - 1 = -1$

$f(1) = 4(1) - 1 = 4 - 1 = 3$

~~x~~ $f(-1) = 4(-1) - 1 = -4 - 1 = -5$

range of $f(x)$ is $\{-5, -1, 3\}$ (1)

b. It is one - to - one ~~function~~ because all domain ~~pointing to~~ are ~~only pointing to one x~~ not pointing more than one ~~elements~~. range. (2)

c. $\{(-1, -5), (0, -1), (1, 3)\}$

inverse function

$= \{(-5, -1), (-1, 0), (3, 1)\}$

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JABATAN MATEMATIK, SAINS DAN KOMPUTER

NAME	MOHD SYAAFI AFFANAN	COURSE CODE/ COURSE NAME		DBM2033 DISCRETE MATHEMATICS	
REGISTRATION NO.	01DDT18F1012	COURSEWORK ASSESSMENT		QUIZ 1	
PROGRAMME/ SECTION	DDT 2B	SESSION		DECEMBER ~~2018~~	
		DURATION	15 MINS	CLO1	10 MARKS
				CLO2	
				CLO3	
		TOTAL MARKS		10 MARKS	

Instructions

- Answer ALL questions. Write your answers in the spaces provided.
- Show your working to get marks. You may use a non-programmable scientific calculator.

Question 1

CLO2, C2 [5 marks]

If $X = \{a, e, i, o, u\}$ and $Y = \{a, b, c, d, e\}$.

(a) Identify $Y - X$.

(b) Given the universal set $U = \{a, b, c, d, e, f, g, i, o, u, z\}$. What is the complement of $X \cup Y$?

(c) Is set X and Y disjoint sets? Explain your answer.

$X \cup Y = \{a, b, c, d, e, i, o, u\}$

Question 2

CLO2, C3 [5 marks]

Given function $f(x) = 4x - 1$. The domain for the function is $\{-1, 0, 1\}$.

(a) Identify the range for $f(x)$.

(b) Is the function f one-to-one? Explain your answer.

(c) What is the inverse function for the function above?

$f(-1) = 4(-1) - 1$

$= -4 - 1$

$= -5$

$0 - 1$

$= -1$

domain

$-1 \rightarrow -5$

$0 \rightarrow -1$

$1 \rightarrow 3$

$4(-5) - 1$

$= -20 - 1$

$= -21$

$4(-1) - 1$

$= -4 - 1$

$= -5$

$4(x) - 1$

$= x - 1$

$= x$

$f(x)^{-1} =$

Subject: MOHD SYAFI AFFNAN OSDDT18F1012

No:

Date:

Question 1

(a) $Y - X = \{b, c, d\}$ (1)

(b) $X \cup Y = \{a, b, c, d, e, i, o, u\}$ (1) so?

(c) No. Because it has same element $X = \{a, e\}$ and $Y = \{a, e\}$.

(2)

Question 2

(a) The range for $f(x)$ is $\{-5, -1, 3\}$. (1)

(b) The function f is one to one because it go to one element only. (1) (1)

(c) $f(x)^{-1} = 4x - 1$

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JABATAN MATEMATIK, SAINS DAN KOMPUTER

NAME	Beckham Gibea	COURSE CODE/ COURSE NAME		DBM2033 DISCRETE MATHEMATICS	
REGISTRATION NO.	05DDT18F1081	COURSEWORK ASSESSMENT		QUIZ 1	
PROGRAMME/ SECTION	DDT2B	SESSION		DECEMBER 2018	
		DURATION	15 MINS	CLO1	10 MARKS
				CLO2	
				CLO3	
		TOTAL MARKS		10 MARKS	

5

Instructions

- Answer ALL questions. Write your answers in the spaces provided.
- Show your working to get marks. You may use a non-programmable scientific calculator.

Question 1

CLO2, C2 [5 marks]

If $X = \{a, e, i, o, u\}$ and $Y = \{a, b, c, d, e\}$.

(a) Identify $Y - X$.

(b) Given the universal set $U = \{a, b, c, d, e, f, g, i, o, u, z\}$. What is the complement of $X \cup Y$?

(c) Is set X and Y disjoint sets? Explain your answer.

Question 2

CLO2, C3 [5 marks]

Given function $f(x) = 4x - 1$. The domain for the function is $\{-1, 0, 1\}$.

(a) Identify the range for $f(x)$.

(b) Is the function f one-to-one? Explain your answer.

(c) What is the inverse function for the function above?

No: Beckham. F1081 Date: 28/1/19

Quiz 1 Discreet Maths

Question 1.

$X = \{a, e, i, o, u\}$ and $Y = \{a, b, c, d, e\}$

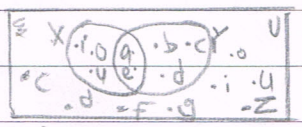
a) $Y - X$

$X = \{a, e, i, o, u\}$

$Y = \{a, b, c, d, e\}$

$Y - X = \{(a, a), (b, e), (c, i), (d, o), (e, u)\}$

b) $U = \{a, b, c, d, e, f, g, i, o, u, z\}$,



Complement of $X \cup Y = \{o, b, c, i, u\}$

$X \cup Y = \{i, o, u, b, c, d\}$

c) No. Set X and Y is not a disjoint sets since that set X and Y have an element inside the sets. Besides, there are some element that are same on the both of the Sets X and Y.

(2)

Question 2.

a) Range for $f(X)$

$f(x) = 4x - 1$

(1)

Range for $f(x) = \{-5, -1, 3\}$

Standard

No: ..... Date: .....

b) function f is one to one function since that the domain of the function got three domain there and each of it will going to each of the codomain too.

(2)

c) The inverse function is f(x)...

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JABATAN MATEMATIK, SAINS DAN KOMPUTER

NAME	NUR AFIQAH BT HABA	COURSE CODE/ COURSE NAME		DBM2033 DISCRETE MATHEMATICS	
REGISTRATION NO.	050070185105	COURSEWORK ASSESSMENT		QUIZ 1	
PROGRAMME/ SECTION	DDT2B	SESSION		DECEMBER 2018	
		DURATION	15 MINS	CLO1	10 MARKS
				CLO2	
				CLO3	
		TOTAL MARKS		10 MARKS	

Instructions

- Answer ALL questions. Write your answers in the spaces provided.
- Show your working to get marks. You may use a non-programmable scientific calculator.

Question 1

CLO2, C2 [5 marks]

If $X = \{a, e, i, o, u\}$ and $Y = \{a, b, c, d, e\}$.

(a) Identify $Y - X$.

(b) Given the universal set $U = \{a, b, c, d, e, f, g, i, o, u, z\}$. What is the complement of $X \cup Y$?

(c) Is set X and Y disjoint sets? Explain your answer.

Question 2

CLO2, C3 [5 marks]

Given function $f(x) = 4x - 1$. The domain for the function is $\{-1, 0, 1\}$.

(a) Identify the range for $f(x)$.

(b) Is the function f one-to-one? Explain your answer.

(c) What is the inverse function for the function above?

NO.: Date:

Question 1

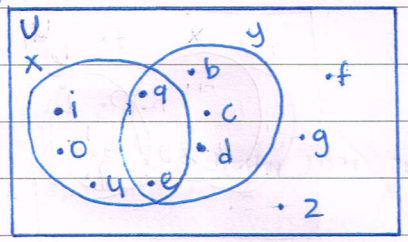
(a)

$X = \{a, e, i, o, u\}$

$Y = \{a, b, c, d, e\}$

$Y - X = \{b, c, d\}$ ✓ (1)

(b)



$X \cup Y = \{a, b, c, d, e, i, o, u\}$ ✓ (1) so?

(c) No, set X and set Y is joint ~~sets~~ because ~~the~~ both of sets have sharing the same element which is a and e.

NO.: Date:

Question 2

a) The range for $f(x)$

$4x-1$ domain $\{-1, 0, 1\}$

$4(-1)-1 = -5$

$4(0)-1 = -1$

$4(1)-1 = 3$

$= \{-5, -1, 3\}$ (1)

b) Yes. Because the result for the function is real number

(1)

(c)

$f(x) = 4x - 1$

Let $y = 4x-1$

$y+1 = 4x$

$\frac{y+1}{4} = \frac{4x}{4}$

$\frac{y+1}{4} = x$

$f^{-1}(x) = \frac{x+1}{4}$ (1 1/2)

$f(x)^{-1} = \frac{x+1}{4}$

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JABATAN MATEMATIK, SAINS DAN KOMPUTER

NAME	Linda Andrias	COURSE CODE/ COURSE NAME		DBM2033 DISCRETE MATHEMATICS	
REGISTRATION NO.	~~DDT18F1003~~ DSDDT18F1003	COURSEWORK ASSESSMENT		QUIZ 1	
PROGRAMME/ SECTION	DDT2B	SESSION		DECEMBER 2018	
		DURATION	15 MINS	CLO1	10 MARKS
				CLO2	
				CLO3	
		TOTAL MARKS		10 MARKS	

5

Instructions

- Answer ALL questions. Write your answers in the spaces provided.
- Show your working to get marks. You may use a non-programmable scientific calculator.

Question 1

CLO2, C2 [5 marks]

If $X = \{a, e, i, o, u\}$ and $Y = \{a, b, c, d, e\}$.

(a) Identify $Y - X$.

(b) Given the universal set $U = \{a, b, c, d, e, f, g, i, o, u, z\}$. What is the complement of $X \cup Y$?

(c) Is set X and Y disjoint sets? Explain your answer.

Question 2

CLO2, C3 [5 marks]

Given function $f(x) = 4x - 1$. The domain for the function is $\{-1, 0, 1\}$.

(a) Identify the range for $f(x)$.

(b) Is the function f one-to-one? Explain your answer.

(c) What is the inverse function for the function above?

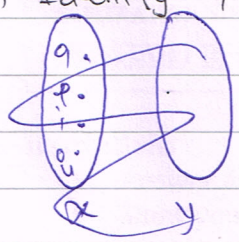
No.

Date :

Question 1.

If $X = \{a, e, i, o, u\}$ and $Y = \{a, b, c, d, e\}$

(a) Identify $Y - X$.

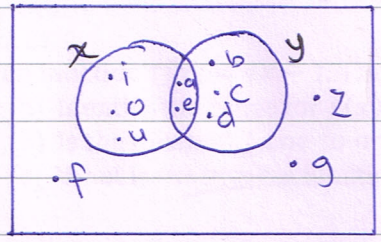


$Y - X = \{b, c, d\}$ ✓ (1)

(b) $X = \{a, e, i, o, u\}$

$Y = \{a, b, c, d, e\}$

$X \cup Y = \{a, b, c, d, e, i, o, u\}$ (1)



(c) Set X and Y is not disjoints. ✓ (1)

No.

Date :

Question 2.

$f(x) = 4x - 1$. Domain $\{-1, 0, 1\}$

(a) Identify the range for $f(x)$

$f(x) = 4(-1) - 1$

$= -5$

$f(x) = 4(0) - 1$

$= -1$

$f(x) = 4(1) - 1$

$= 3$

(1)

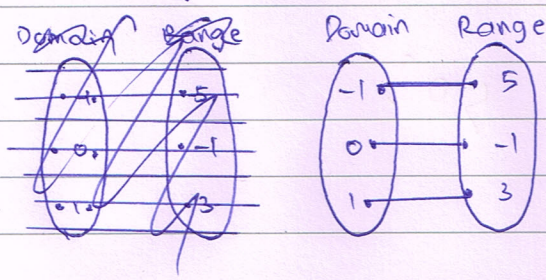
Range $= \{-5, -1, 3\}$

(1)

(b) Is the function f one-to-one? Explain your answer.

= Function f is one-to-one.

why?



(c) What is the inverse function for the function above?

$\{(5, -1), (-1, 0), (3, 1)\}$

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JABATAN MATEMATIK, SAINS DAN KOMPUTER

NAME	Sharol Nazren Bin Sarkawi	COURSE CODE/ COURSE NAME		DBM2033 DISCRETE MATHEMATICS	
REGISTRATION NO.	05DDT18F1091	COURSEWORK ASSESSMENT		QUIZ 1	
PROGRAMME/ SECTION	DDT2B	SESSION		DECEMBER 2018	
		DURATION	15 MINS	CLO1	10 MARKS
				CLO2	
				CLO3	
		TOTAL MARKS		10 MARKS	

Instructions

- Answer ALL questions. Write your answers in the spaces provided.
- Show your working to get marks. You may use a non-programmable scientific calculator.

Question 1

CLO2, C2 [5 marks]

If $X = \{a, e, i, o, u\}$ and $Y = \{a, b, c, d, e\}$.

(a) Identify $Y - X$.

(b) Given the universal set $U = \{a, b, c, d, e, f, g, i, o, u, z\}$. What is the complement of $X \cup Y$?

(c) Is set X and Y disjoint sets? Explain your answer.

Question 2

CLO2, C3 [5 marks]

Given function $f(x) = 4x - 1$. The domain for the function is $\{-1, 0, 1\}$.

(a) Identify the range for $f(x)$.

(b) Is the function f one-to-one? Explain your answer.

(c) What is the inverse function for the function above?

Subject: Discrete Mathematics

No: 05DDT18F1091

Date: 28/01/19

Question 1

* If $X = \{a, e, i, o, u\}$ and $Y = \{a, b, c, d, e\}$

a) Identify $Y - X$

$Y - X = \{b, c, d\}$ ✗

b) Given the universal set $U = \{a, b, c, d, e, f, g, i, o, u, z\}$. What is the complement of $X \cup Y$?

$X \cup Y = \{a, b, c, d, e, i, o, u\}$ ✓ (1). So?

c) Is set X and Y disjoint sets? explain your answer.

No ✓ since ~~X ∈ Y~~ $X \subset Y$ but $Y \not\subset X$? (1)

Question 2

Given function $f(x) = 4x - 1$. The domain for the function is $(-1, 0, 1)$

a) Identify the range $f(x)$.

~~$f(x) = 4(-1) - 1$~~ ~~$f(x) =$~~ $f(-1) = 4(-1) - 1$

$= -5$ ✗

b) Is the function f one-to-one? explain your answer.

?

c) What is the inverse function for the function above?

?

Subject:

No:

Date:

Primary key

* Customer_No
* Property_No

Customer Name (Customer_No , Property_No , CName)

Property ~~Address~~ (Property_No , PAddress)

Rent (Customer_No , Property_No , CName , Rent)

Owner Name (Owner_No , OName)

KEMENTERIA PENDIDIKAN MALAYSIA — POLITEKNIK MALAYSIA JABATAN MATEMATIK, SAINS DAN KOMPUTER		COURSE CODE/ COURSE NAME		DBM2033 DISCRETE MATHEMATICS	
		COURSEWORK ASSESSMENT		QUIZ 1	
		SESSION		DECEMBER 2018	
		DURATION	15 MINS	CLO1	~~10 MARKS~~
NAME	Ostine Anak Osa			CLO2	2
REGISTRATION NO.	05DOT17F2011			CLO3	
PROGRAMME/ SECTION		TOTAL MARKS		10 MARKS	

Instructions

- Answer ALL questions. Write your answers in the spaces provided.
- Show your working to get marks. You may use a non-programmable scientific calculator.

Question 1

CLO2, C2 [5 marks]

If $X = \{a, e, i, o, u\}$ and $Y = \{a, b, c, d, e\}$.

(a) Identify $Y - X$.

(b) Given the universal set $U = \{a, b, c, d, e, f, g, i, o, u, z\}$. What is the complement of $X \cup Y$?

(c) Is set X and Y disjoint sets? Explain your answer.

Question 2

CLO2, C3 [5 marks]

Given function $f(x) = 4x - 1$. The domain for the function is $\{-1, 0, 1\}$.

(a) Identify the range for $f(x)$.

(b) Is the function f one-to-one? Explain your answer.

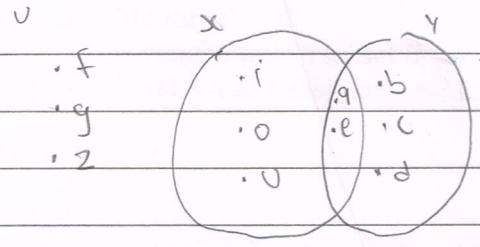
(c) What is the inverse function for the function above?

No.: ..... Date: .....

Question 1

a) $Y - X$
$= \{a, e\}$

b) $U = \{a, b, c, d, e, f, g, i, o, u, z\}$
$X = \{a, e, i, o, u\}$
$Y = \{a, b, c, d, e\}$



$X \cup Y = \{a, b, c, d, e, i, o, u\}$

c) Yes because set X and Y didn't joint completely

Question 2

a) $-5 \leq x \leq 5$

b) Yes because

c)

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JABATAN MATEMATIK, SAINS DAN KOMPUTER

NAME	ASMIRA SHAZLEENA	COURSE CODE/ COURSE NAME		DBM2033 DISCRETE MATHEMATICS	
REGISTRATION NO.	050DDT18F1010	COURSEWORK ASSESSMENT		QUIZ 1	
PROGRAMME/ SECTION	DDT 2B - S2	SESSION		DECEMBER 2018	
		DURATION	15 MINS	CLO1	10 MARKS
				CLO2	2
				CLO3	
		TOTAL MARKS		10 MARKS	

Instructions

- Answer ALL questions. Write your answers in the spaces provided.
- Show your working to get marks. You may use a non-programmable scientific calculator.

Question 1

CLO2, C2 [5 marks]

If $X = \{a, e, i, o, u\}$ and $Y = \{a, b, c, d, e\}$.

(a) Identify $Y - X$.

(b) Given the universal set $U = \{a, b, c, d, e, f, g, i, o, u, z\}$. What is the complement of $X \cup Y$?

(c) Is set X and Y disjoint sets? Explain your answer.

Union

∩ intersect

Question 2

CLO2, C3 [5 marks]

Given function $f(x) = 4x - 1$. The domain for the function is $\{-1, 0, 1\}$.

(a) Identify the range for $f(x)$.

(b) Is the function f one-to-one? Explain your answer.

(c) What is the inverse function for the function above?

Range $f(x) = 5$

Subject:..... No:.....

Date: . .

1. a) Identify $Y - X$

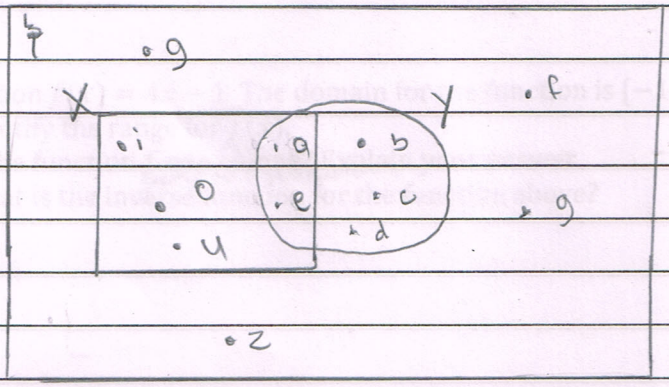
$Y = \{a, b, c, d, e\}$

$X = \{a, e, i, o, u\}$

b) $\xi = \{a, b, c, d, e, f, g, i, o, u, z\}$

$X = \{a, e, i, o, u\}$

$Y = \{a, b, c, d, e\}$



$X \cup Y = \{a, e\}$

c) Set X and Y is not disjoint set because there are element a and e $\in$ $X \cup Y$

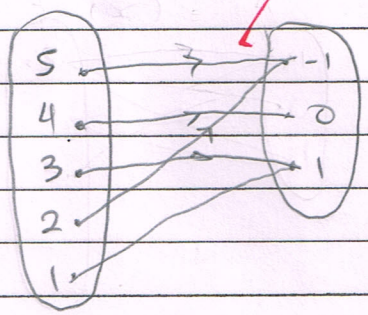
(2)

Subject:..... No:.....

Date: . .

2. a) Range for $f(x) = 5$

b)



It is not one to one function because it is not pointing to the elements

c)