

 KEMENTERIA PENDIDIKAN MALAYSIA		 POLITEKNIK MALAYSIA		COURSE CODE/ COURSE NAME		PBM1035 INTENSIVE MATHEMATICS	
				COURSEWORK ASSESSMENT		TUTORIAL 2	
				SESSION		DECEMBER 2018	
				DURATION		60 MINS	CLO1 10 MARKS
NAME		ADUR IYAZI		CLO2			
REGISTRATION NO.		051PP18P2018		CLO3			
PROGRAMME/ SECTION		IPP1		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

[3 marks]

CLO1, C1

Write the interval notation for

- $x \geq -5$
- $-4 < x \leq 3$
- $x < 1$

Question 2

[3 marks]

CLO1, C2

Represent the following interval notation on a number line.
 $x \leq 3$ or $x > 6$

Question 3

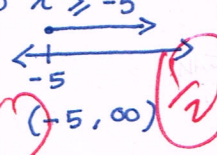
[4 marks]

CLO1, C3

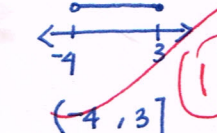
- Solve the inequality of $8x + 8 \geq -64$ and $-7 - 8x \geq -79$.
- Represent the solution on the number line.
- Write the solution with interval notation.

Q1

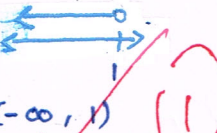
(a) $x \geq -5$



(b) $-4 < x \leq 3$

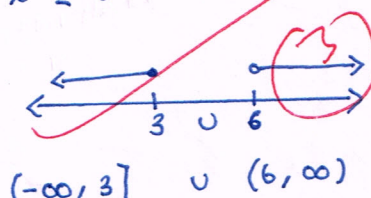


(c) $x < 1$



Q2

$x \leq 3$ or $x > 6$



Q3

(a) $8x + 8 \geq -64$ and $-7 - 8x \geq -79$

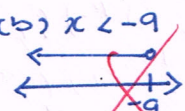
$8x + 8 - 8 \geq -64 - 8$

$8x \geq -72$

$\frac{8x}{8} \geq \frac{-72}{8}$

$x \geq -9$

(b) $x < -9$



(c) $(-\infty, -9)$

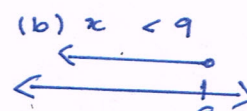
$-7 + 7 - 8x \geq -79 + 7$

$-8x \geq -72$

$\frac{-8x}{-8} \geq \frac{-72}{-8}$

$x \leq 9$

(b) $x < 9$



(c) $(\infty, 9)$

 KEMENTERIA PENDIDIKAN MALAYSIA  POLITEKNIK MALAYSIA JABATAN MATEMATIK, SAINS DAN KOMPUTER		COURSE CODE/ COURSE NAME		PBM1035 INTENSIVE MATHEMATICS	
		COURSEWORK ASSESSMENT		TUTORIAL 2	
		SESSION		DECEMBER 2018	
		DURATION		CLO1	10 MARKS
NAME	NAZMEEN AMISHA BT TIALAMON	60 MINS		CLO2	
REGISTRATION NO.	051PPIPF2010			CLO3	
PROGRAMME/ SECTION	IPP1	TOTAL MARKS		10 MARKS	

Instructions

- Answer ALL questions. Write your answers in the spaces provided.
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Question 1

CLO1, C1

Write the interval notation for

- $x \geq -5$
- $-4 < x \leq 3$
- $x < 1$

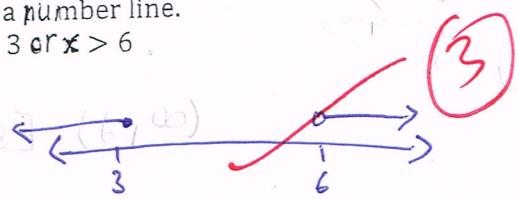
Handwritten answers for Question 1:
 a) $[-5, \infty)$
 b) $(-4, 3]$
 c) $(-\infty, 1)$

[3 marks]

Question 2

CLO1, C2

Represent the following interval notation on a number line.
 $x \leq 3$ or $x > 6$



[3 marks]

Question 3

CLO1, C3

- Solve the inequality of $8x + 8 \geq -64$ and $-7 - 8x \geq -79$.
- Represent the solution on the number line.
- Write the solution with interval notation.

$$8x + 8 \geq -64$$

$$8x + 8 - 8 \geq -64 - 8$$

$$8x \geq -72$$

$$x \geq -9$$

$$x \geq -9$$

$$-7 - 8x \geq -79$$

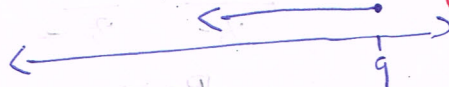
$$-7 + 7 - 8x \geq -79 + 7$$

$$-8x \geq -72$$

$$x \leq 9$$

$$x \leq 9$$

$$x \leq 9$$



$$[-9, 9]$$

Handwritten notes: "join" and a circled "1" indicating the intersection of the two inequalities.

[4 marks]

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JABATAN MATEMATIK, SAINS DAN KOMPUTER				COURSEWORK ASSESSMENT		TUTORIAL 2	
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NAME	CLO2						
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Instructions

- Answer ALL questions. Write your answers in the spaces provided.
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Question 1

[3 marks]

CLO1, C1

Write the interval notation for

- (a) $x \geq -5$
(b) $-4 < x \leq 3$
(c) $x < 1$

a) $[-5, \infty)$ ✓ (1)

b) $(-4, 3]$ ✓ (1)

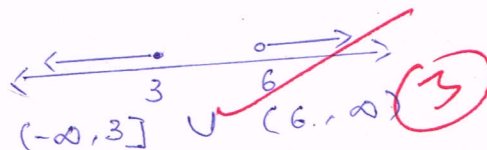
c) $(-\infty, 1)$ ✓ (1)

Question 2

[3 marks]

CLO1, C2

Represent the following interval notation on a number line.
 $x \leq 3$ or $x > 6$



Question 3

[4 marks]

CLO1, C3

- (a) Solve the inequality of $8x + 8 \geq -64$ and $-7 - 8x \geq -79$.
(b) Represent the solution on the number line.
(c) Write the solution with interval notation.

a) $8x + 8 \geq -64$

$8x + 8 - 8 \geq -64 - 8$

$\frac{8x}{8} \geq \frac{-72}{8}$

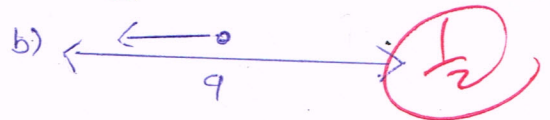
$x \geq -9$ (1)

a) $-7 - 8x \geq -79$

$-7 + 7 - 8x \geq -79 + 7$

$\frac{-8x}{-8} \leq \frac{-72}{-8}$

(1) $x \leq 9$



c) $[-9, \infty)$

c) $(-\infty, 9]$

join (1/2)