KEMENTERIAN PENDIDIKAN MALAYSIA — POLITEKNIK MALAYSIA **JABATAN MATEMATIK, SAINS DAN KOMPUTER**		COURSE CODE/ COURSE NAME		PBM1035 INTENSIVE MATHEMATICS	
		COURSEWORK ASSESSMENT		TUTORIAL 2	
		SESSION		DECEMBER 2018	
		DURATION	60 MINS	CLO1	10 MARKS
NAME				CLO2	
REGISTRATION NO.				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

CLO1, C1 [3 marks]

Write the interval notation for

(a) $x \geq -5$

$[-\mathbf{5}, \infty)$

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

$(-\mathbf{4}, \mathbf{3}]$

(c) $x < 1$

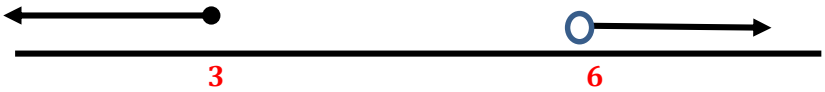
$(-\infty, \mathbf{1})$

Question 2

CLO1, C2 [3 marks]

Represent the following interval notation on a number line.

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



Note: 1 mark for both correct directions; 1 mark for both correct labeling; 1 mark for both correct dots.

Question 3

CLO1, C3 [4 marks]

(a) Solve the inequality of $8x + 8 \geq -64$ and $-7 - 8x \geq -79$.

$\mathbf{8x + 8 \geq -64}$

$\mathbf{8x \geq -64 - 8}$

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

$\mathbf{x \geq -9}$ **(1 mark)**

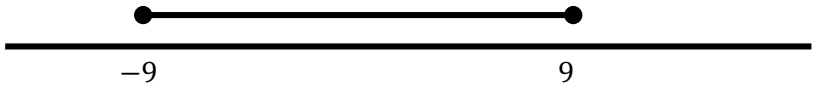
$\mathbf{-7 - 8x \geq -79}$

$\mathbf{-8x \geq -79 + 7}$

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

$\mathbf{x \leq 9}$ **(1 mark)**

(b) Represent the solution on the number line. **(1 mark)**



(c) Write the solution with interval notation. $\mathbf{[-9, 9]}$ **(1 mark)**