
 <b>KEMENTERI/ PENDIDIKAN MALAYSIA</b>    <b>JABATAN MATEMATIK, SAINS DAN KOMPUTER</b>		COURSE CODE/ COURSE NAME		PBM1035 INTENSIVE MATHEMATICS	
		COURSEWORK ASSESSMENT		TEST 2	
		SESSION		DECEMBER 2018	
		DURATION	60 MINS	CLO1	10 MARKS
CLO2					
CLO3					
NAME					
REGISTRATION NO.					
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

[4 marks]

Write each interval as an inequality.

- (a)  $(-2, 7]$   
(b)  $(-\infty, 5)$

### Question 2

CLO1, C2

[4 marks]

Solve for  $x$  which satisfy the inequality below:

$$2(x + 2) \leq -2(x - 1)$$

### Question 3

CLO1, C2

[3 marks]

Simplify the expression and leave only positive indices in the answer.

$$\frac{(-a^4b)^3}{-a^4b^3}$$

### Question 4

CLO1, C3

[4 marks]

Calculate the following indices without using calculator.

$$8^{x-1} \div \frac{1}{32^x} = 16^{x+1}$$