	COURSE CODE/ COURSE NAME	PBM1035 INTENSIVE MATHEMATICS
	COURSEWORK ASSESSMENT	GROUP DISCUSSION 1
KEMENTERIAN PENDIDIKAN TINGGI POLITEKNIK MALAYSIA KUCHING SARAWAK	SESSION	JUNE 2018

JABATAN MATEMATIK, SAINS DAN KOMPUTER

NAME	Taag Miag Foo			CLO1	
		DURATION	60 MINS	CLO2	
REGISTRATION NO.	051DPI8F1002			CLO3	10 MARKS
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 [CLO3, C1]
Find the derivatives of the following functions. Simplify your answers.

(a) $y = \frac{5}{6}x^3$

(b) $y = 2x^{-3}$

[4 marks]

Question 2 [CLO3, C2]
Differentiate the following with respect to x.

(a) $y = 2\sqrt{x} + 6x + 2$

(b) $y = \frac{5x^2 + 4x + 2}{2x^3}$

[4 marks]

Question 3 [CLO3, C3]
Determine the differentiation for the following function:

$$y = \frac{6x^3 + 4x^2 - 3x - 1}{x^2}$$

[2 mark]