

 KEMENTERIA PENDIDIKAN MALAYSIA  POLITEKNIK MALAYSIA JABATAN MATEMATIK, SAINS DAN KOMPUTER		COURSE CODE/ COURSE NAME		PBM1035 INTENSIVE MATHEMATICS			
		COURSEWORK ASSESSMENT		TUTORIAL 1			
		SESSION		DECEMBER 2018			
		DURATION	60 MINS	CLO1	10 MARKS		
CLO2							
CLO3							
NAME				TOTAL MARKS		10 MARKS	
REGISTRATION NO.							
PROGRAMME/ SECTION		IPP1					

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

- (a) Given the expression $x^2 + 5xy - 3$. Identify the total variable term(s) and constant term(s) in this expression.

Total variable term(s) = 2 ; constant term = 1

CLO1, C2

- (b) Simplify the expression $11c^5 - 9c^6 + 15c^5 - 2(-2c + 3c^2)$.

$$11c^5 - 9c^6 + 15c^5 + 4c - 6c^2$$

$$= 26c^5 - 9c^6 + 4c - 6c^2$$

Question 2

CLO1, C2

- Simplify the polynomial $3x^2(x^2 + x + 2) - (x^4 + 2x^3 - 2x)$.

$$3x^4 + 3x^3 + 6x^2 - x^4 - 2x^3 + 2x$$

$$= 2x^4 + x^3 + 6x^2 + 2x$$

Question 3

CLO1, C3

- Use polynomial division to simplify the following.

$$\frac{n^2 + 10n + 18}{n + 5}$$

$$\begin{array}{r}
 n + 5 \\
 n + 5 \overline{) n^2 + 10n + 18} \\
 \underline{-(n^2 + 5n)} \\
 5n + 18 \\
 \underline{-(5n + 25)} \\
 -7
 \end{array}$$