

INTENSIVE MATHEMATICS (PBM1035)
Session December 2017
MODEL EXAM PAPER (QUESTION 2)

Instructions

- Answer ALL questions. Write your answers in the spaces provided.
- Show your working. You may use a non-programmable scientific calculator.

Question 1

Simplify the following expressions into the lowest form.

(a) $\frac{3mn}{2mn^2} \times \frac{4n}{8n^2}$

(b) $-3x(x + 2) - (2x - 5)$

Question 2

Factorize the given expressions completely.

(a) $\frac{12x-24}{x^2-x-2}$

(b) $3x^2 + 7x + 2$

Question 3

Simplify the following expression.

$$\frac{3b^3 + b}{2b} \div \frac{3b}{2}$$