Introduction to Coding Theory Assignment 16

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1 Q1

(a) 0

(b) $x^2 + 1$

(c) $x + 1$

2 Q2

(a) No inverse exists

(b) No inverse exists

(c) No inverse exists

3 Q3

(a) $x^3 + x^2$

(b) 1

(c) $x^3 + x^2 + x + 1$

4 Q4

(a) $x^4 + x^3 + x^2$

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

(c) $x^4 + x^2 + x + 1$