Name _____ Student No._____G___/____ Date: _____Score: _____
Nickname: _____ Worksheet No.: _____

Remainder Theorem

A. Use remainder theorem to solve for the unknown variable.

1) $(-x^2 - x + 2) \div (-x - 2)$

Remainder: -10

2) $(2x^2 - 4x + 2) \div (2x - 2)$

Remainder: 32

3) $(-x^3 - 3x^2 + x + 3) \div (-x - 2)$

Remainder: 48

4) $(2x^2 - 2) \div (1 - x)$

Remainder: 96

5) $(-x^2 - 2x) \div (2x + 1)$

Remainder: -8

6) $(x^3 + 3x^2 - 4x - 12) \div (2x)$

Remainder: -12

7) $(4x^3 - 6x^2 + 2x) \div (-x)$

Remainder: 0

8) $(-2x^3 + 5x^2 - 4x + 1) \div (-x)$

Remainder: 1

9) $(8x^3 + 8x^2 - 2x - 2) \div (2x)$

Remainder: -2

10) $(-4x^3 - 8x^2 - 3x) \div (2x - 1)$

Remainder: -4