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

Remainder Theorem

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

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

Remainder: -28

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

Remainder: -3

3) $2x^4 - 4x^3 - 8x^2 + 4x + 6 \div 2x - 1$

Remainder: 0

4) $-x^2 + 4x - 3 \div x - 2$

Remainder: -8

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

Remainder: 6

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

Remainder: 0

7) $2x^2 + 5x + 3 \div x - 2$

Remainder: 21

8) $-x^2 - x \div x - 1$

Remainder: -2

9) $2x^3 + 4x^2 + 2x \div x - 2$

Remainder: 36

10) $-2x^4 + 8x^3 - 6x^2 - 8x + 8 \div -x - 1$

Remainder: 0