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

Remainder Theorem

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

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

Remainder: 120

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

Remainder: 42

3) $(4x^4 + 8x^3 - 13x^2 - 2x + 3) \div (1 - x)$

Remainder: 75

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

Remainder: -3

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

Remainder: -36

6) $(-8x^4 - 32x^3 - 46x^2 - 28x - 6) \div (2x)$

Remainder: -6

7) $(-2x^2 - 3x) \div (2x - 1)$

Remainder: -2

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

Remainder: 0

9) $(1 - x^2) \div (2x + 1)$

Remainder: $\frac{3}{4}$

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

Remainder: -6