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

Remainder Theorem

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

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

Remainder: 10

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

Remainder: 360

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

Remainder: 0

4) $(2x^4 + 11x^3 + 21x^2 + 16x + 4) \div (x + 1)$

Remainder: 9720

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

Remainder: 20

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

Remainder: 0

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

Remainder: 0

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

Remainder: 0

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

Remainder: 0

10) $(-2x^2 - 5x - 2) \div (2x - 2)$

Remainder: -9