

Name _____ Student No. ____ G ____ / ____ Date: _____ Score: _____
Nickname: _____ Worksheet No.: _____

Evaluating Polynomial

A. Evaluate each function at the given value.

1) $x^4 + 3x^3 - 7x^2 - 15x + 18$ at $x = 5$

6) $x^4 - 3x^3 + 3x^2 - x$ at $x = 7$

Evaluated Value: 768

Evaluated Value: 1512

2) $-2x^3 - 6x^2 - 4x$ at $x = 4$

7) $4x^4 + 20x^3 + 25x^2 - 9$ at $x = 2$

Evaluated Value: -240

Evaluated Value: 315

3) $-2x^2 + 6x$ at $x = 3$

8) $-4x^4 - 14x^3 - 12x^2 + 2x + 4$ at $x = 4$

Evaluated Value: 0

Evaluated Value: -2100

4) $-x^4 + 2x^2 - 1$ at $x = -5$

9) $-2x^4 - 7x^3 + 4x^2 + 27x + 18$ at $x = \frac{1}{2}$

Evaluated Value: -576

Evaluated Value: $\frac{63}{2}$

5) $x^2 + x - 2$ at $x = 3$

10) $2x^2 + 5x + 3$ at $x = -1$

Evaluated Value: 10

Evaluated Value: 0