

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

Evaluating Polynomial

A. Evaluate each function at the given value.

1) $-2x^2 - 4x - 2$ at $x = -3$

6) $-x^3 - 2x^2 + 5x + 6$ at $x = 1$

Evaluated Value: -8

Evaluated Value: 8

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

7) $2x^3 - 3x^2 - 2x$ at $x = 5$

Evaluated Value: -28

Evaluated Value: 165

3) $-4x^5 - 18x^4 - 20x^3 + 10x^2 + 24x + 8$ at $x = 4$

8) $-4x^5 - 22x^4 - 30x^3 + 10x^2 + 34x + 12$ at $x = -1$

Evaluated Value: -9720

Evaluated Value: 0

4) $2x^4 + 3x^3 - 14x^2 - 33x - 18$ at $x = 6$

9) $2x^4 + 8x^3 + 12x^2 + 8x + 2$ at $x = \frac{1}{2}$

Evaluated Value: 2520

Evaluated Value: $\frac{81}{8}$

5) $4x^5 - 14x^4 - 6x^3 + 34x^2 + 10x - 12$ at $x = -6$

10) $-2x^5 - 11x^4 - 4x^3 + 53x^2 + 48x - 36$ at $x = -\frac{1}{2}$

Evaluated Value: -46800

Evaluated Value: $-\frac{375}{8}$