Integrated Math 3
Unit 6: Polynomials
6.8

Name:
Date: $\qquad$ Period: $\qquad$

Objective: to identify key features of graphs.

Warm-up: Explain how the graph of $f(x)=x^{2}$ and the graph of $f(x)=(x+2)^{2}+3$ are different.

Example 1: Use the graph provided to find each of the following
a. x -intercept(s)
b. y-intercept
c. relative maximum(s)

d. relative minimum(s)
e. maximum
f. minimum
g. increasing interval(s)
h. decreasing interval(s)
i. end behavior

Example 2: Use the graph provided to find each of the following
a. x -intercept(s)
b. y -intercept
c. relative maximum(s)
d. relative minimum(s)

e. maximum
f. minimum
g. increasing interval(s)
h. decreasing interval(s)
i. periodicity
j. symmetry
k. average rate of change from $-\frac{3 \pi}{2}$ to $\frac{\pi}{2}$

