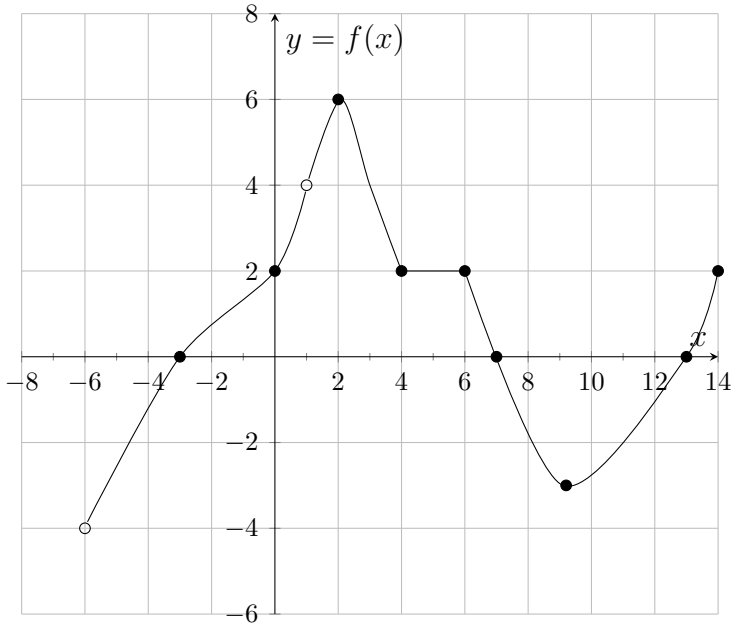
Name _____

Homework 9
Section 3.2

1. Use the graph of the function $y = f(x)$ shown below to determine the following:



(a) (1ea) $f(-3) =$ $f(0) =$

$f(2) =$ $f(12) =$

(b) (2ea) What is the domain of $f(x)$?

What is the range of $f(x)$?

(c) (3) What is/are the intercept(s) of the graph of $f(x)$?

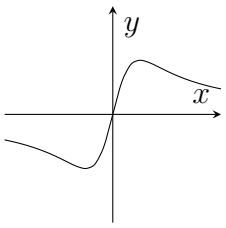
(d) (2) On what open interval(s) is $f(x)$ decreasing?

(e) (2) On what interval(s) is $f(x)$ negative?

(f) (2) Determine the relative maxima and minima of $f(x)$.

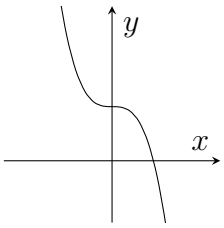
(g) (2) For what value(s) of x is $f(x) = 4$?

2. (1ea) Use the graphs below to determine if the functions are even, odd or neither.



Circle one:

Odd Even Neither



Circle one:

Odd Even Neither