

Name: _____

PLEDGE: I pledge that I have neither given nor received any assistance on this quiz.

1. What does it mean for a function, f , to be *even*?

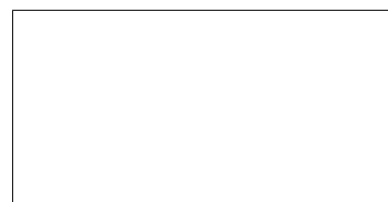
2. Consider the piece-wise defined function:

$$f(x) = \begin{cases} 2x + 6 & \text{if } x \leq -2 \\ |x| & \text{if } -2 < x < 1 \\ \sqrt{x} & \text{if } 1 \leq x \end{cases}$$

(a) What is the domain of f ?

(b) What are the intercepts of f ?

(c) On which open intervals is f increasing? Decreasing? Constant?



(d) Graph f .

