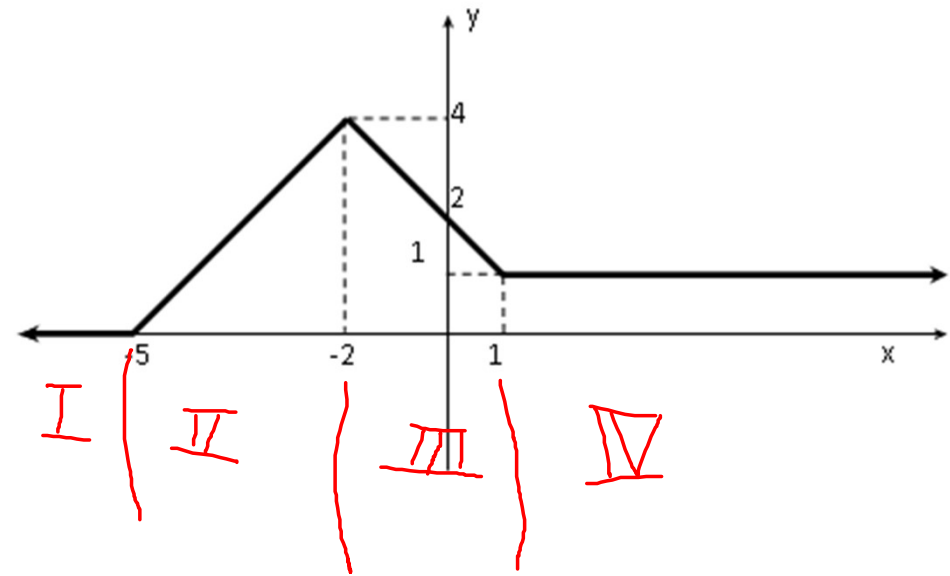


MIDTERM PREP

Question #1

- > Write a Python script that produces a value regarding to the function depicted in the Figure.
- > The script should get an x value from the user and should print the corresponding y value.



Question #2

- > Write a Python program that should get temperatures (integer numbers) entered by a user to display the following results:
 - Average temperature
 - Lowest temperature
 - Highest temperature
 - Absolute difference between the lowest and highest
- > User enters the numbers one at a time in a mixed order.
- > Entering “quit” indicates termination of data-entry.

Question #3

> We want to calculate square root of the number, n, by using the following equation

$$\sum_{i=0}^n (2i + 1) = n^2$$

> Write a Python function which takes an integer and returns square integer part of its square root