Name _____

ALG2RCC   Regents Review #5

This is a study tool for the next regents review quiz.

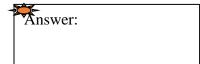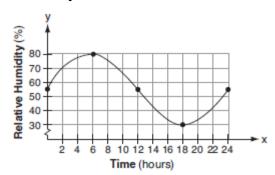|	
1. Find the inverse of $f(x) = \sqrt{x} - 7; f(x) \geq -7$ Answer:	**Justify** your answer.
2. If $h(n) = n + 2$ and $g(n) = 2n + 1$, find $h(n) - g(n)$ Answer:	**Justify** your answer.
3. What is the average rate of change of $f(x) = x^2 + 5x + 14$ in the domain [-1,2]?	**Justify** your answer!

4. A meteorologist drew the accompanying graph to show the changes in relative humidity during a 24-hour period in New York City.

State the domain and range.

Answer:

Justify your answer!

Explain your answer.

5. What is the y-intercept of the function? Evaluate $f(-1)$ and $f(10)$.

$$f(x) = \begin{cases} -4, & x \le -2 \\ x - 2, & -2 < x < 2 \\ -2x + 4, & x \ge 2 \end{cases}$$

Answer: