Functions

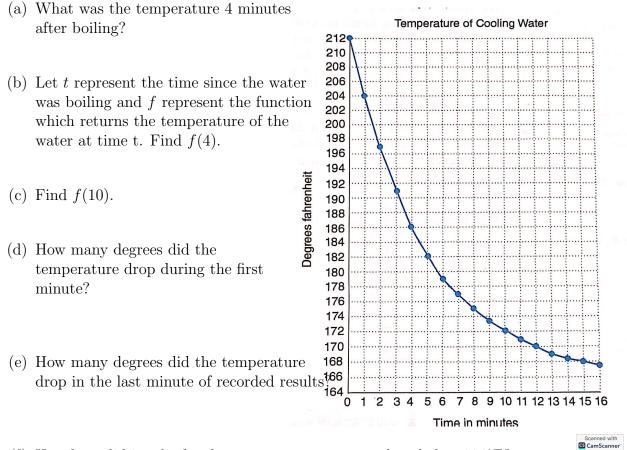
While working in a group make sure you:

- Expect to make mistakes but be sure to reflect/learn from them!
- Are civil and are aware of your impact on others.
- Assume and engage with the strongest argument while assuming best intent.
- 1. Determine which of the following rules below are functions.
 - (a) Assign every house to its square footage.
 - (b) Assign every house to the people that live in it.
 - (c) The rule f with the table:

x	f(x)	
-2	-7	
-1	-5	
0	-3	
1	-1	
2	1	

- (d) The rule α takes an input element, triples it, and then subtracts 2 from the result.
- (e) The rule β defined by $\beta(x) = \pm \sqrt{x+2}$.

2. (Example F on page 601) Fourth graders at King Elementary School conducted an experiment to observe the rate at which water cools. They placed a thermometer in a beaker of water and heated the water to boiling. They recorded the water temperature every minute until the temperature dropped to just below 168° F. Then they plotted the results on the grid like the one below.



(f) How long did it take for the water temperature to drop below 204°F?