## Warm Up

1. Sketch graphs of cubic functions with the given number of zeros. Describe the domain, range, and zeros of each function.
a. 1 zero
b. 2 zeros
c. 3 zeros


Glass Frog Eggs Recorded


Answer the questions on the next few pages

Recall that a relative maximum is the highest point in a particular section of a function's graph, and a relative minimum is the lowest point in a particular section of the graph. Similarly, the absolute maximum is the highest point in the entire graph, and the absolute minimum is the lowest point in the entire graph. The set of relative maximums, relative minimums, absolute maximums, and absolute minimums may also be referred to as extrema. The extrema are also called extreme points and extremum.


Number of Months

## An absolute

maximum can also be considered a relative maximum. Usually only the more significant label of absolute maximum is used, with the term relative maximum implied. The same reasoning can be applied to an absolute minimum and a relative minimum.

