

**9.** Determine the zero(s) and the initial value of the following functions.

**10.** The function f on the right is represented by a horizontal line.

a) What can we say about the zeros of this function? Justify your answer.

The zeros do not exist, because the graph will never intersect the x-axis since the line is parallel to the x-axis.

- b) What is the initial value of the function? \_\_\_\_2
- **11.** The graph on the right represents a function *f* which gives the profit *p* made by a company as a function of time *t* (in months) since its opening.
  - a) What is the zero of this function? What does it represent?
    3; it represents the number of months since opening for the profit to be zero.
  - b) What is the initial value of this function? What does it represent?

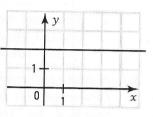
-1500; it represents the company's profit at its opening.

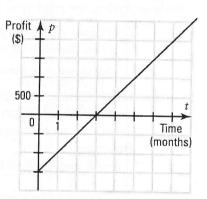
- **12.** The graph on the right represents a function f which gives the height h reached by a diver (in m) as a function of time t (in seconds).
  - a) What are the zeros of this function? What do they represent?

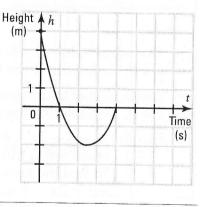
1 s and 4 s. They represent the time at which the diver was at the surface of the water.

b) What is the initial value of this function? What does it represent?

4 m. It represents the height from which the diver jumped.







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