#### Module 1 DCA, standard F.IF.B.4 Review, page 1

**1)** Chloe is using a pump to drain the water from her pool. It gets clogged partway through, and she has to clear the clog. The graph represents this situation.



**b) (E LEVEL)** Identify the domain and range. Domain:

Range:

- c) Is the graph discrete or continuous?
- **d)** Identify the maximum point (write an ordered pair) and explain what it means in the problem situation.

Maximum point: Explanation:

**e)** Is the graph increasing, decreasing, or constant? If it is a mixture of one or more, describe the interval where each occurs.

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2) (E LEVEL) Determine whether each relationship represents a function. Explain why or why not.





Why or why not?

Function?

3

6

Why or why not?

0

4



## for c)

Function?

Why or why not?

## 3) OKAY TO SKIP. CAN ONLY HELP YOU, NOT HURT YOU.

Classify each function as increasing, decreasing, or constant. Explain your reasoning.

a) f(x) = 6b) f(x) = 3x + 2Increasing, decreasing, or constant?Increasing, decreasing, or constant?

Explanation:

Explanation:

# Module 1 DCA, standard F.IF.B.4 Review, page 3 4) DON'T DO THIS ONE. CROSS IT OFF.

Sketch a graph of the given situation. Samwise shoots a rocket into the air, and it reaches a height of 120 feet before returning to the ground.



5) Match each function to its graph. Explain your reasoning.

