Evaluating Functions Given a Graph

The following graph shows Johnny's elevation during a hike. Use the graph below for questions 1-6.

1. Find \( f(1) \). What does that mean in the context of this problem?

2. Find \( f(4) \). What does that mean in the context of this problem?

3. If \( f(x) = 200 \), find \( x \). What does that mean in the context of this problem?

4. If \( f(x) = 400 \), find \( x \). What does that mean in the context of this problem?

5. What is the domain of this function? Interpret the domain in the context of the problem.

6. What is the range of this function? Interpret the domain in the context of the problem.
Use the graph at the right to answer the questions

7. Find $x$ if $f(x) = 0$

8. Find $f(1)$

9. Find $f(-2)$

10. If $f(x) = 3$, estimate $x$

11. What is $f(2)$?

12. Estimate $x$ if $f(x) = 1$

REVIEW: Graph the following quadratic functions.

13. $f(x) = 2(x + 5)^2 - 3$

   Vertex
   Domain
   Range

14. $f(x) = -(x - 5)^2 + 3$

   Vertex
   Domain
   Range