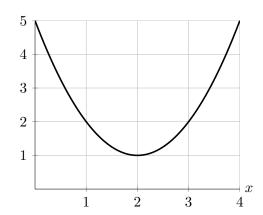
9. [7 points] The graph of h'(x) (the **derivative** of h(x)) is shown below.

$$y = h'(x)$$



a. [3 points] Find a formula for the tangent line approximation L(x) to the function h(x)near x=2 if the point (2,-3) lies on the graph of y=h(x). Your answer should not include the letter h.

Answer: L(x) =

b. [1 point] Use the tangent line approximation to the function h(x) near x=2 to approximate the value of h(1.6).

Answer: h(1.6) is approximately ___

c. [3 points] Is your approximation in part b an overestimate or an underestimate? Circle your answer and give a justification of your answer.

Overestimate

Underestimate

NOT ENOUGH INFORMATION

Justification: