9. [7 points] The graph of $h^{\prime}(x)$ (the derivative of $h(x)$ ) is shown below.

$$
y=h^{\prime}(x)
$$


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: $L(x)=$ $\qquad$
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 $\qquad$
c. [3 points] Is your approximation in part $\mathbf{b}$ an overestimate or an underestimate? Circle your answer and give a justification of your answer.

Overestimate Underestimate Not enough information

## Justification:

