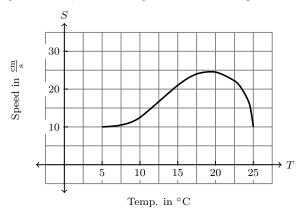
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1. The graph below shows the influence of the temperature T on the maximal sustainable swimming speed S of Coho salmon. Estimate S'(15) (include the units), and describe the meaning of S'(15). Make sure to show your work, which may include drawing on the graph.



- **2.** Let $f(x) = x^2 2x$.
 - (a) Use the definition of the derivative to find a formula for f'(x)

(b) Use the formula that you found in the previous part to compute f'(0), f'(1), and f'(2).

3. The graph of y = f(x) is given below.

