1. Let B(x) represent the area bounded by the graph and the horizontal axis and vertical lines at t=0 and t=x for the graph shown below. Evaluate B(x) for x = 1 and 5.



1. For $f\left(x\right)=\frac{1}{x+1} $ find



1. Find the areas of the rectangles:



1. Rewrite as a definite integral. Do not evaluate.



1. Represent the area bounded by the regions as a definite integral and evaluate.



1. Your velocity along a straight line is shown below









1. Use Leibniz rule to find:



1. Use change of variables to find:



1. Sketch the graph of the two functions and find the area between them.



