

Answer the following questions in complete sentences, and be sure to show all of your work.

1. Write the equation of the tangent line at  $x = 1$  for the function  $f(x) = 1/x$ .

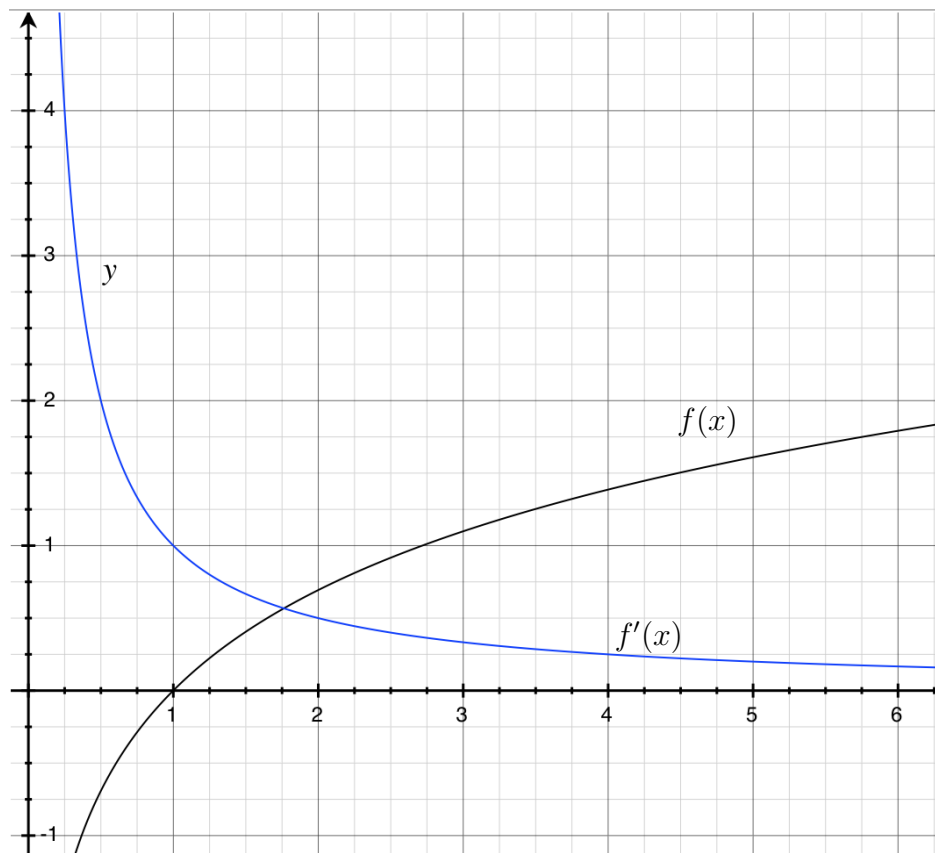


Figure 1: Use the above graph to find the equation of the tangent line.

2. *Extra credit 2 points* Use the graph above to find the equation of the tangent line at  $x = 1$  for the function  $f(x)$ .