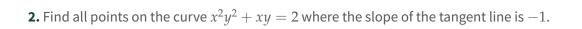
Math 141 Group Quiz 3

1. Let
$$f(x) = x/\sqrt{x^2 + 1}$$
.

a. Why is f(x) always increasing?

b. At which value of x is f(x) changing most rapidly?

c. Find the line tangent to the graph when x = 1.



3. Find all places where the tangent line to the curve $x^2 - xy + y^2 = 1$ is either vertical or horizontal.