## Quiz 8

## Name:

1. Linearize the function  $f(x) = \arctan x$  at the point  $x_0 = \sqrt{3}$  to obtain the tangent line to the graph of f(x) at this point.

2. Determine the critical points of the function  $f(x) = (x^2 - 8) e^x$ , and classify each critical point as a local maximum, local minimum, or neither.