

Test 1, **Problem 1b, c**

1. Below are parts of graphs of $y = \sin x$ and $y = \arcsin x$. (I hope they're what you drew!)

b. On the graph of $y = \arcsin x$, let A be the point whose x-coordinate is $x = -1$, and let B be the point whose x-coordinate is 1. Tell the exact slope (no decimal approximation) of the line determined by the points A and B.

c. At the point $(\frac{\rho}{3}, \frac{\sqrt{3}}{2})$ on the graph of $y = \sin x$, draw carefully the tangent line. (To put this point on your graph, note that $\rho/3 \approx 1.05$.) Then estimate the slope of the line you drew. You must show what you did to get your estimate.

