Q1. Evaluate the limit if it exists. If it does not exist, explain why. (4 points)

\[ \lim_{x \to 1} \arcsin \left( \frac{1 - \sqrt{x}}{1 - x} \right) \]

Q2. Using \( \varepsilon - \delta \) definition for the limit, find the largest number \( \delta > 0 \) for \( \lim_{x \to 2} \sqrt{4x+1} = 3 \) that works for \( \varepsilon = 1 \). (6 points)