

Q1. Evaluate  $\lim_{x \rightarrow 1} \frac{\sqrt{2x^2 + x} - \sqrt{x^2 + 2}}{\sqrt{x} - 1}$



Q2. Sketch  $f = \sin x$  on  $0 \leq x \leq \pi$ , and use it to find  $\lim_{x \rightarrow \frac{\pi}{2}} \llbracket \sin x \rrbracket$

