

Q1. Evaluate each limit if it exists and explain if it is not. (Show all your work)

i. $\lim_{x \rightarrow 2} \frac{\sqrt{6-x} - 2}{1 - \sqrt{3-x}}$

Final Ans.

ii. $\lim_{x \rightarrow (-\frac{\pi}{2})^-} \lceil 1 + \cos x \rceil$ (where $\lceil y \rceil$ is the greatest integer $\leq y$)

Final Ans.