Problem 1: Calculate \( \lim_{x \to -2} \frac{x^2 - 4}{x^2 + 3x + 2} \).

Solution of problem 1:

Problem 2: Find the Cartesian equation of the curve given by parametric equations

\[
x = \sqrt{t} + 1, \quad y = -t + 1. \quad t \geq 1.
\]

Sketch it, and indicate with an arrow the direction in which the curve is traced as the parameter increases.

Solution of problem 2: