Find \( \int_{-2}^{-1} \frac{dx}{(x+1)^{4/3}} \).

**Answer:** This is an improper integral because the function \( \frac{1}{(x+1)^{4/3}} \) becomes infinite as \( x \) approaches \(-1\). The integral is equal to

\[
\lim_{b \to -1^-} \int_{-2}^{b} \frac{dx}{(x+1)^{4/3}} = \lim_{b \to -1^-} \left[ -\frac{3}{(x+1)^{1/3}} \right]_{-2}^{b} = \lim_{b \to -1^-} \left( \frac{-3}{(b+1)^{1/3}} - \frac{-3}{(-2+1)^{1/3}} \right) = +\infty - 1 = +\infty.
\]