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Explore four possibilities to evaluate the integral $\int x\sqrt{x+1} dx$. Analyze which approaches work and which don't. Remember that sometimes, multiple substitutions are possible, as is integrating by parts more than once.

1. By u-substitution, $u = \sqrt{x+1}$

2. By u-substitution, $u = x+1$

3. By parts, let $f(x) = x$, and $g'(x) = \sqrt{x+1}$

4. By parts, let $f(x) = \sqrt{x+1}$ and $g'(x) = x$



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