a) $\int x^3 \, dx$

c) $\int \dfrac{1}{\sqrt{1-u^2}} \, du \quad (|u| < 1)$

b) $\int e^{-s} \, ds$

d) $\int \dfrac{1}{t-1} \, dt \quad (t > 1)$

How would the answer in d) change if one instead assumed $t < 1$?