Sketch the region and find its area

48. \( S = \left\{ (x, y) \mid 3 < x \leq 7, \ 0 \leq y \leq \frac{1}{\sqrt{x - 3}} \right\} \)

**CAS 17–19** Use either a CAS or a table of integrals to find the exact length of the curve.

17. \( x = t^3, \ y = t^4, \ 0 \leq t \leq 1 \)