CALCULUS AB  7.1 HW#2  Name______________________________

1) Find Area of enclosed region between the graph of \( f(x) = \sqrt{x} \) and \( x \)-axis from \([0,4]\).

(Set up and use calculator)

(a) vertical cross sections  
(b) horizontal cross sections

2) Find Area of enclosed region between the graph of \( y = 2^x \), \( y = 8 \) and \( y \)-axis.

(Set up and use calculator)

(a) vertical cross sections  
(b) horizontal cross sections
3) Find Area of enclosed region between the graph of \( g(x) = \sqrt{x} \), \( h(x) = 3 \) and \( y \)-axis from \([0, 9] \).

(\textbf{Set up and use calculator})

\( a) \) vertical cross sections \hspace{2cm} \text{ } \hspace{2cm} b) \) horizontal cross sections

4)

\( a) \) Find Area of region R. \hspace{2cm} \text{ } \hspace{2cm} b) \) Find Area of region S.