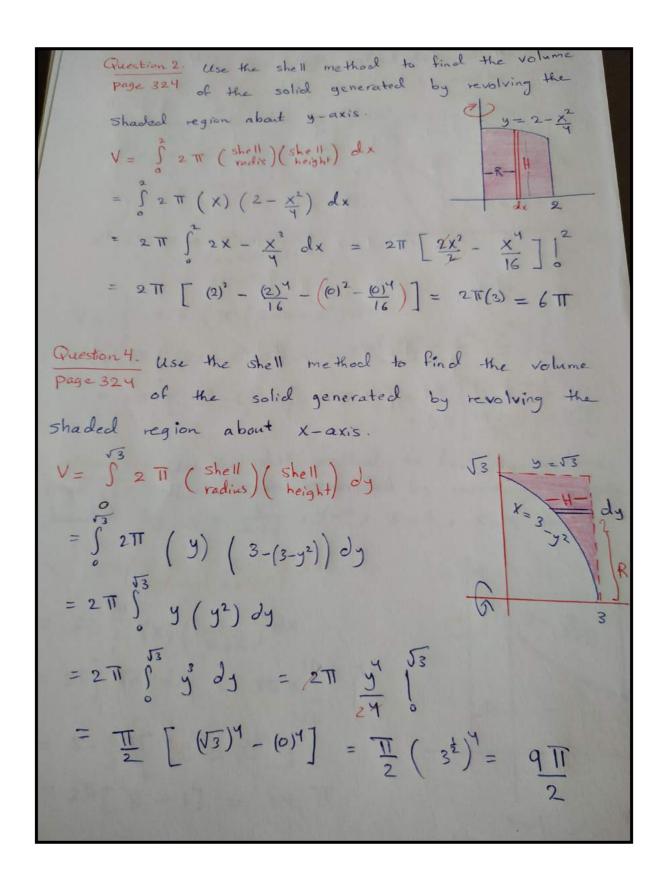
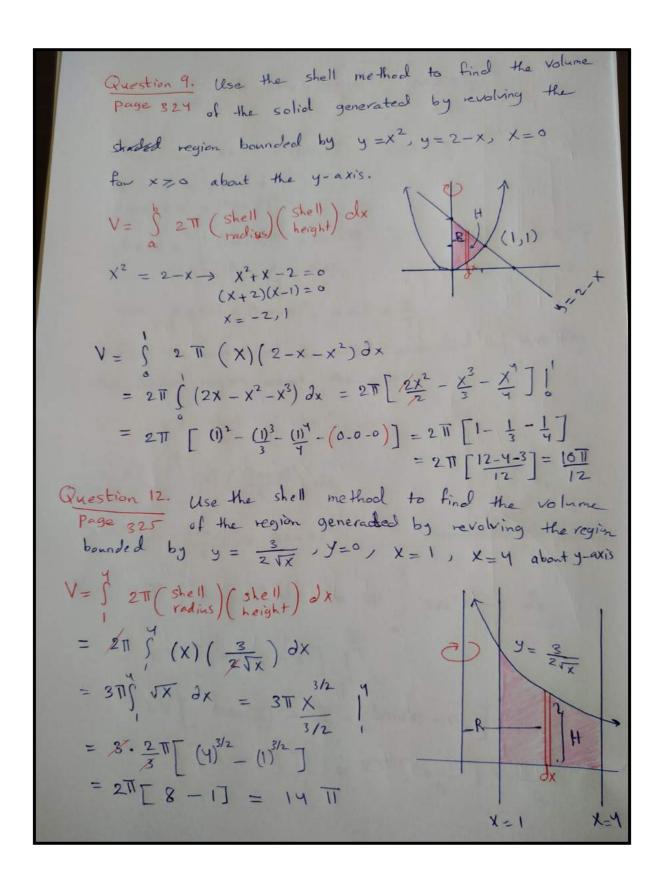
6.2 Volumes Using Cylindrical Shells The volume of the solid generated by revolving the region between the x-axis the graph of a continuous function y = f(x) 70, 1 & a & x & b about a vertical Line X=1 is V = \$\int 2\text{TI} (\shell \text{shell} \text{shell} \text{height}) dx about a horizontal line y = L V = S 2 TT (shell) (shell height) dy





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Let
$$g(x) = \int \frac{(\tan x)^2}{x}$$
, $0 < x \leq \mathbb{I}$

a) Show that $x = g(x) = (\tan x)^2$, $0 < x \leq \mathbb{I}$

at $x = 0 \rightarrow g(x) = 0 \rightarrow x$
 $x = 0 \Rightarrow g(x) = 0 \Rightarrow x =$

