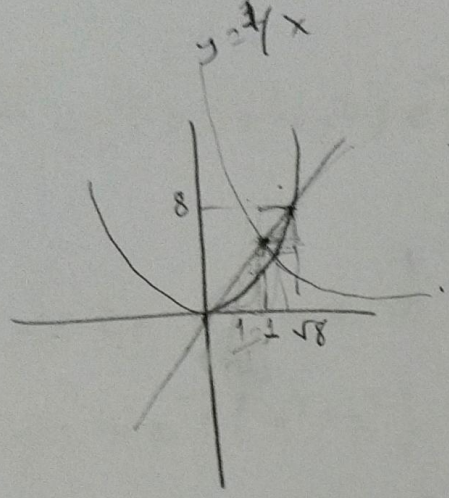
3)



$y = x^2$, $y = \sqrt{8}\,x$

$\Rightarrow x^2 = \sqrt{8}\,x$

$x_1 = 0$, $x_2 = \sqrt{8}$

$y = 1/x$, $y = x^2 \Rightarrow x = 1$

$y = 1/x$, $y = \sqrt{8}\,x \Rightarrow x = \frac{1}{\sqrt{2\sqrt{2}}}$.

First Area is $A_1 = \int_{\frac{1}{\sqrt{2\sqrt{2}}}}^{\sqrt{8}} \left(\sqrt{8}\,x - x^2\right) dx$

$\Rightarrow A_1 = \left[\frac{x^2}{\sqrt{2}} - \frac{x^3}{3}\right]_{\frac{1}{\sqrt{2\sqrt{2}}}}^{\sqrt{8}} = \frac{8}{\sqrt{2}} - \frac{8\sqrt{8}}{3} -$