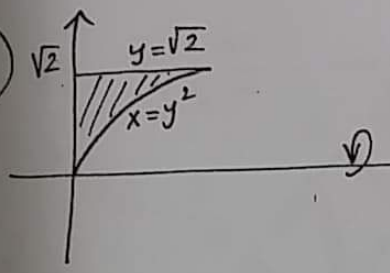
CALCULUS I (BÜTÜNLEME)

! Solve just four questions. 20/1/2015.

1) $y = \int_{\sin x}^{e^2} x \cdot e^{(t)^2} dt$ Find $\frac{dy}{dx}$.

2) $\int_{-1}^{1} \frac{1}{e^{-x}+e^{x}} dx = ?$

3) Evalvate the area of bounded region by the parabola $y=x^2$, the line $x+y=2$ and x-axis at the first quadrant.

4) 

The shaded area is rotated about x-axis. Evaluate the volume of generated solid.

5) $y = x^{2/3}$ Find the length of the given curve on the interval $0 \le x \le 8$.

GOOD LUCK

50 min

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