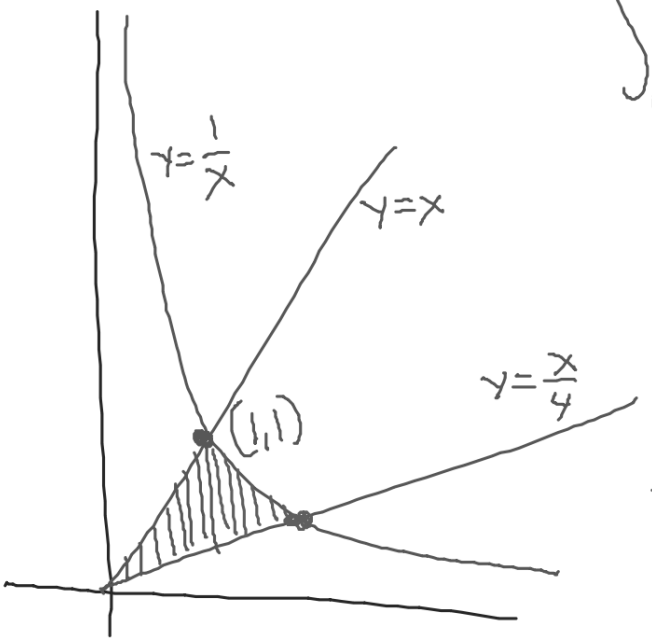
27 $y=\frac{1}{x}$ $y=x$ $y=\frac{1}{4}x$ $x>0$



$$\int_0^1 \left(x-\frac{x}{4}\right)dx+\int_1^2 \left(\frac{1}{x}-\frac{x}{4}\right)dx$$

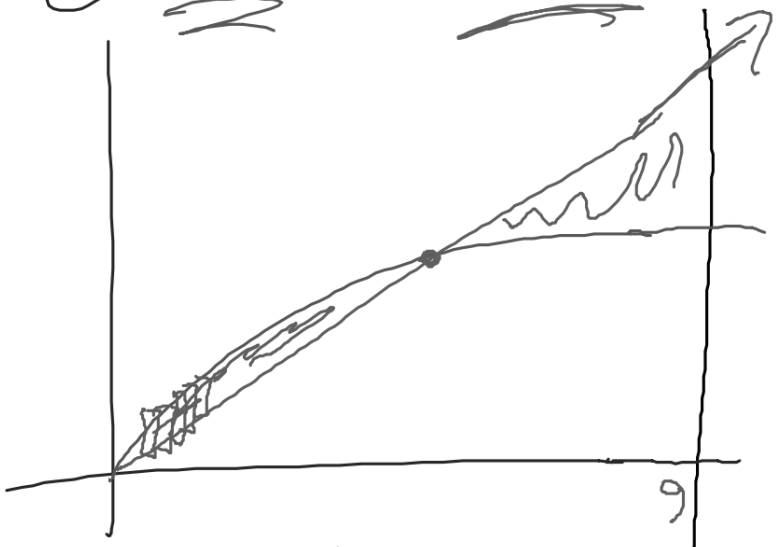
$\ln 2$

$\frac{x}{4}=\frac{1}{x}$

$x^2=4$

$x=\pm 2$

17 $y=\sqrt{x}$ $y=\frac{1}{2}x$ $x=9$



$$\int_0^4 \left(\sqrt{x}-\frac{x}{2}\right)dx+\int_4^9 \left(\frac{x}{2}-\sqrt{x}\right)dx$$

$$\frac{59}{12}$$

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