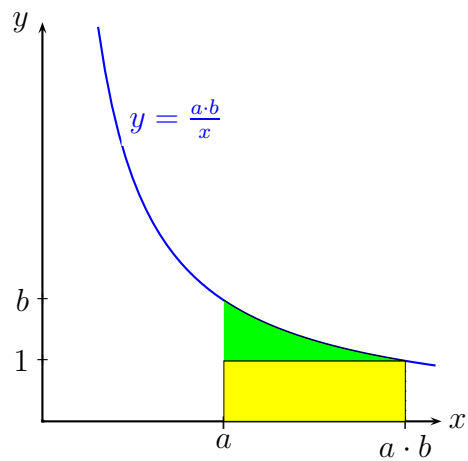
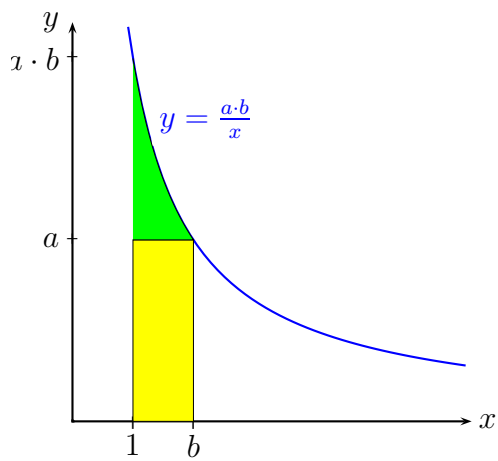
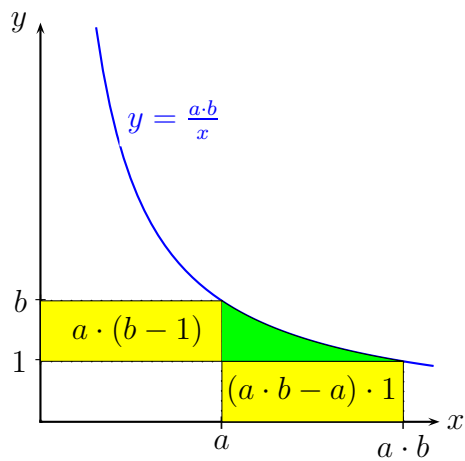
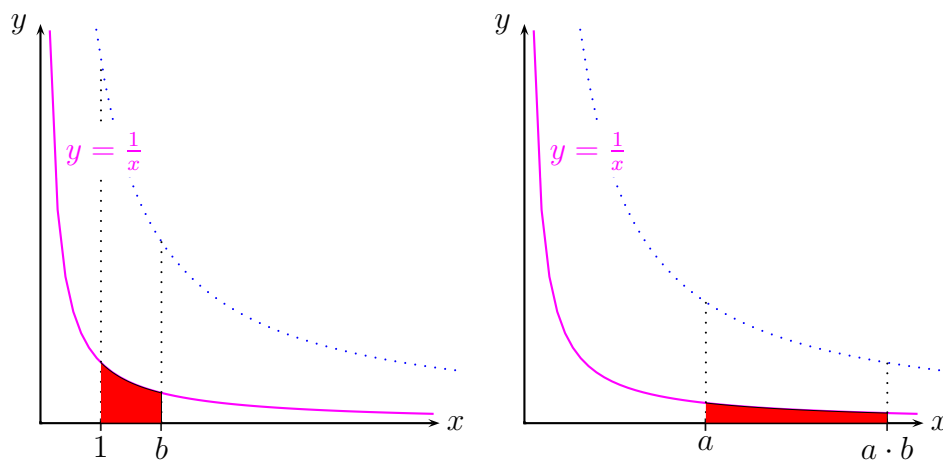


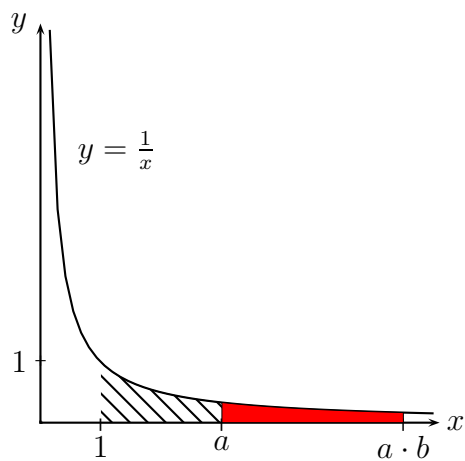
Proof without words: $\ln(a \cdot b) = \ln a + \ln b$



$$\text{Area} \left(\frac{a \cdot b}{x}, [1, b] \right) = \text{Area} \left(\frac{a \cdot b}{x}, [a, a \cdot b] \right)$$



$$\text{Area} \left(\frac{1}{x} , [1 , b] \right) = \text{Area} \left(\frac{1}{x} , [a , a \cdot b] \right)$$



$$\text{Area} \left(\frac{1}{x} , [1 , a] \right) + \text{Area} \left(\frac{1}{x} , [a , a \cdot b] \right) = \text{Area} \left(\frac{1}{x} , [1 , a \cdot b] \right) .$$

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