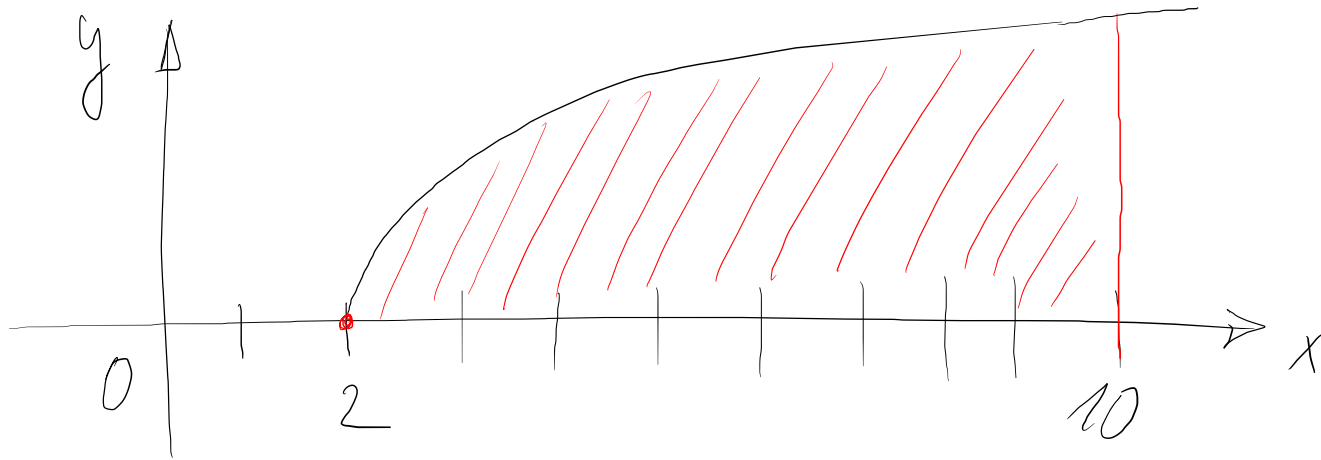


$$y = \sqrt{2x-4} \quad x = 2 \quad x = 10$$

$$\sqrt{2x-4} = 0 \Leftrightarrow 2x-4=0 \Leftrightarrow x=2$$

$$\sqrt{2x-4} \text{ existe} \Leftrightarrow 2x-4 \geq 0 \Leftrightarrow x \geq 2$$



$$\begin{aligned}
 \text{Aire: } \int_2^{10} \sqrt{2x-4} \, dx &= \frac{1}{2} \int_2^{10} \sqrt{2x-4} \cdot 2 \, dx \\
 &= \frac{1}{2} \int_2^{10} (2x-4)^{1/2} \cdot 2 \, dx = \frac{1}{2} \cdot \frac{1}{1+1/2} (2x-4)^{1+1/2} \Big|_2^{10} \\
 &= \frac{1}{3} \cdot (2x-4)^{3/2} \Big|_2^{10} = \frac{1}{3} \left(16^{3/2} - 0 \right) = \frac{64}{3} \approx 21,3
 \end{aligned}$$

Handwritten annotations in green:

- A circle around $\sqrt{2x-4}$ in the first step, with an arrow pointing to $(2x-4)^{1/2} = 2$.
- A circle around $\frac{1}{1+1/2}$ in the second step, with an arrow pointing to $2/3$.