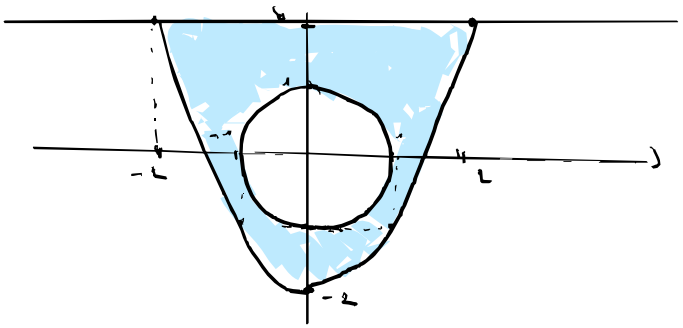
1) $\int_{\partial G^+} x \, dy$ ← Linienintegral



So: $\boxed{\frac{32}{3} - \pi}$

Via Stokes'schem Satz: $\iint 1 \, dS$, welches Fläche approximiert?

dS?

$$\int_{-2}^{2} (2 - (x^2 - 1)) \, dx = \frac{32}{3}$$

$$\int_0^{2\pi} d\varphi \int_0^1 dr = \pi$$