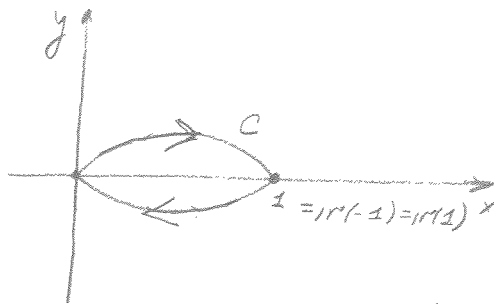


## Extra uppgifter (vecka 7)

1.



$C$ -negativt orienterad

$$\begin{aligned} \text{Arean} &= -\oint_{-C} y dx \quad (\text{eller } \oint_{-C} (x dy - y dx)) = \\ &= \oint_C y dx = \frac{8}{15} \end{aligned}$$

2. Svar:  $12\pi$

3.  $24\pi$

4.  $\pi(1 - e^{-3})$