

SVAR

1. $-5/6$

2. $y = C_1 \cos 2x + C_2 \sin 2x + \frac{1}{8}e^{-2x}$

3. a) $3/4$ b) -4

4. $2e^{-2}$

5. $\pi^2/2 - \pi$

6. $y = \frac{\tan^{-1} x}{1 + x^2}$

7. Studera funktionen

$$f(x) = \sqrt{x} - \frac{1}{\sqrt{x}} - \ln x$$