1. Find the length of the curve with equation \( y = \frac{x^2}{2} - \frac{\ln(x)}{4}, \quad 2 \leq x \leq 4. \) 

2. Find the length of the curve with equation \( y = \ln\left(\frac{e^x + 1}{e^x - 1}\right), \quad 0 < a \leq x \leq b. \)

3. Find the area of the surface generated when the curve \( 9x = y^2 + 18, \quad 2 \leq x \leq 6 \) is rotated about the \( x \)-axis.

4. Find the area of the surface generated when the curve \( x = a \cosh\left(\frac{y}{a}\right), \quad -a \leq y \leq a, \) is rotated about the \( y \)-axis.