The majority of the credit you receive will be based on the completeness and the clarity of your responses. Show all of your work and justify your solutions as much as possible.

This is a 15 minute quiz and has 2 questions, for a total of 10 points
(5 points) 1. Find the arc length of the function $f(x)=\frac{1}{2}\left(e^{x}+e^{-x}\right)$ on the interval $0 \leq x \leq 2$.
(5 points) 2. Find the surface area of the object obtained by rotating the region bounded by the curve $y=\sqrt{4-x^{2}}$ and the $x$-axis on the interval $[-1,1]$ about the $x$-axis.

