

## Bonus Question #1 :

Define hyperbolic sine and hyperbolic cosine as follows:

$$\bullet \sinh(x) = \frac{1}{2}(e^x - e^{-x})$$

$$\bullet \cosh(x) = \frac{1}{2}(e^x + e^{-x})$$

What is  $\frac{d}{dx}(\cosh(x))$ , in terms of  $\sinh(x)$ ?

{ Worth 2 bonus points. }

{ Due Wed., Jan. 19 }