NAME:_____ ID:_____ Section: _____

Exercise 1 (5 points)
Find all points at which the curve $y = \sinh(x) - 2x$ *has a horizontal tangent line.*

Exercise 2 (5 points) *Show that for every* $x > 0$, $\quad \frac{1}{1+x} < \ln\left(1 + \frac{1}{x}\right) < \frac{1}{x}$.

NAME:_____ ID:_____ Section: _____

Exercise 1 (5 points)
Find all points at which the curve $y = \cosh(x) - 3x$ has a horizontal tangent line.

Exercise 2 (5 points) *Show that for every $x > 0$, $\frac{1}{1+x} < \ln(1 + \frac{1}{x}) < \frac{1}{x}$.*