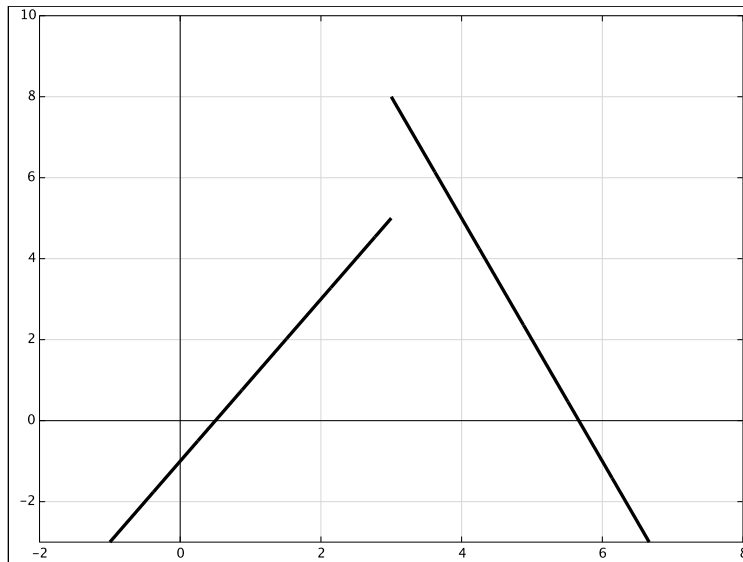# Math 151, Quiz # 3, September 17, 2013

1. Evaluate $\sinh(\ln(5))$. Is the funtion $f(x) = \sinh(x)\cosh(x)$ an odd function or an even function? Explain.

2. In the plot below the function $f(x)$, a piecewise function composed of two lines, is plotted. Evaluate the following limits or state that the limit does not exist:

$$\lim_{x \to 3^-} f(x) =$$

$$\lim_{x \to 3^+} f(x) =$$

$$\lim_{x \to 3} f(x) =$$