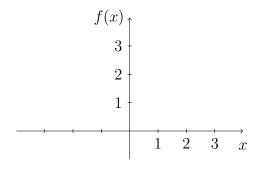
Quiz 2 Calculus

Instructions Please write your name in the upper right-hand corner of the page.

If you need more space to write your solutions, you may use the back of the page or a separate sheet of paper.

- 1. How is the word "asymptote" spelled?
- 2. The line that passes through the two points (1,-1) and (4,5) has the standard Cartesian equation y=2x-3. Find an equation for this line either in the vector form $\vec{r}(t)=\vec{r}_0+t\vec{v}$ or in the parametric form $x(t)=x_0+at$ and $y(t)=y_0+bt$.

3. Draw a graph that illustrates a function f with the properties that $\lim_{x\to 2^-} f(x) = 1$ and $\lim_{x\to 2^+} f(x) = 3$.



4. According to the precise definition of a limit, the meaning of the symbols " $\lim_{x\to a} f(x) = L$ " is that for every positive number ε there corresponds a positive number δ such that [fill in the blanks]

whenever _____.