1. The graph of a function $f$ is shown below. Use the graph to find the following limits, if they exist.

a) \( \lim_{x \to -3} f(x) \)

b) \( \lim_{x \to -1} f(x) \)

c) \( \lim_{x \to -1^-} f(x) \)

d) \( \lim_{x \to -1^+} f(x) \)

2. Find the following limit, if it exists.

\[
\lim_{x \to \infty} \frac{3x^2 + x + 1}{2x^2 - 1}
\]
3. Find the following limit, if it exists.

\[
\lim_{x \to 3} \frac{x^2 - 9}{x - 3}
\]

4. Find those values of \( x \) for which the following function is continuous.

\[
f(x) = \begin{cases} 
2x - 1 & \text{if } x < 0 \\
x^2 + 2x - 1 & \text{if } 0 \leq x \leq 2 \\
8 - x & \text{if } 2 < x
\end{cases}
\]