Read each problem very carefully before starting to solve it. Each problem is worth 5 points. It is necessary to show all your work. Correct answers without explanations are worth 0 points. GOOD LUCK!!

1. Consider the function $y=f(x)$ whose graph is depicted in the figure.


$$
\begin{aligned}
& f(1)= \\
& \lim _{x \rightarrow 1^{-}} f(x)= \\
& \lim _{x \rightarrow 1^{+}} f(x)= \\
& \lim _{x \rightarrow 1} f(x)=
\end{aligned}
$$

2. Sketch the graph of the function $f(x)=\left\{\begin{array}{ll}x+3, & \text { if } x \leq-1 \\ -x^{2}+4, & \text { if } x>-1\end{array}\right.$.

$$
\begin{aligned}
& f(-1)= \\
& \lim _{x \rightarrow-1^{-}} f(x)= \\
& \lim _{x \rightarrow-1^{+}} f(x)= \\
& \lim _{x \rightarrow-1} f(x)=
\end{aligned}
$$

