Show all work, clearly and legibly, to receive full credit. Correct spelling, organization of your solution, and proper use of mathematical notation all count. You may use a calculator, but no notes, books, or other resources. Good luck!

1.) (4 pts.) Find the domain of the function \( f(x) = \sqrt{x^2 - 4} \).

\[
\begin{align*}
x^2 - 4 &\geq 0 \\
x^2 &\geq 4 \\
x &\geq 2 \\
x &\leq -2 
\end{align*}
\]

2.) (4 pts.) Suppose that \( g \) is an even function and that the point \((2, 7)\) is on the graph of \( g \). Find another point on the graph of \( g \).

\((-2, 7)\)

3.) (2 pts.) Compute the equation of the line in the figure below.

\[
y = x + 3
\]