Part I (95pts):
§13.4: 10, 13, 14, 16.
Extra Knowledge (no credit)
§14.1: 19, 39-42, 59-64, 70

Part II (10 pts): Find the following limit \( \lim_{x \to 0} f(x) \) where \( f(x) \) is the function defined by the rule

\[
f(x) = \begin{cases} 
  x^{2013} \sin \left( \frac{e^{x^{2012}}}{\arctan \left( \frac{x^{2012}}{\sin(\cos(x^{2011}))} \right)} \right) & \text{if } x \neq 0 \\
  2014 & \text{if } x = 0.
\end{cases}
\]