## Math 131 - Quiz 10

April 19, 2023

Name $\qquad$
Score $\qquad$

Show all work to receive full credit. Supply explanations when necessary.

1. (7 points) Evaluate each limit.
(a) $\lim _{x \rightarrow 0} \frac{\sin 5 x}{\tan 9 x}$
(b) $\lim _{x \rightarrow \infty} e^{-x} \sqrt{x}$
(c) $\lim _{x \rightarrow 2^{+}}\left(\frac{8}{x^{2}-4}-\frac{x}{x-2}\right)$
2. (3 points) Use Newton's method to approximate the solution of $\sin x=x-1$.
