Name:
Quiz 9
11/14/19
Section: $\qquad$

For full credit you must present a clearly organized solution, showing all supporting calculations.

1. Let $f(x)=e^{-x^{2}}$.
(a) Find the intervals on which $f$ is increasing, and the intervals on which $f$ is decreasing.
(b) Find the intervals of concavity and any inflection points of $f$.
(c) Find and classify all local extrema using either the first or second derivative tests.
(d) Determine any asymptotes of $f$.
(e) Use the information gathered in (a)-(d) to sketch a graph of $f$.
