Calculus II. Quiz 0. Name $\qquad$ Time
Show all work on this page for full and/or partial credit. Use a calculator to find the decimal answer, rounded to two decimal places. Angles are always in radians for Calculus. Put a box around all answers!

For each problem, find $f(1)$ and $f^{\prime}(1)$.
Example: $f(x)=3 \sin 2 x$

$$
f(1)=3 \sin (2 \cdot 1)=2.73 \quad f^{\prime}(x)=6 \cos 2 x \quad f^{\prime}(1)=6 \cos (2 \cdot 1)=-2.50
$$

1. $f(x)=\sin ^{2}(\pi x)$
2. $f(x)=\ln 3 x+-x^{2}$
3. $f(x)=(\ln 3) x$
4. $f(x)=2^{x^{3}}$
5. $f(x)=\left(2^{x}\right)^{3}$
