## Quiz 10 Calculus $1 \quad$ Due 12/1/2021

Each problem is worth 5 points. Open book, open notes, feel free to collaborate with anyone, but try to make sure you understand what you turn in well.

1. Evaluate each definite integral exactly and as a decimal correct to the nearest thousandth:
a. $\int_{4}^{7} \frac{1}{x} d x$
b. $\int_{5}^{9} x d x$
2. Evaluate each integral exactly:
a. $\int_{0}^{1} x^{2} d x$
b. $\int_{0}^{2} x^{2} d x$
c. $\int_{0}^{3} x^{2} d x$
d. $\int_{0}^{\pi / 2} \sin x d x$
e. $\int_{0}^{\pi} \sin x d x$
f. $\int_{0}^{3 \pi / 2} \sin x d x$
g. $\int_{0}^{2 \pi} \sin x d x$

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3. Let $F(x)=\int_{0}^{x} t^{2} d t$ and let $G(x)=\int_{0}^{x} \sin t d t$. Evaluate each value of the functions exactly:
a. $\quad F(1)=$
b. $\quad F(2)=$
c. $F(3)=$
d. $\quad G\left(\frac{\pi}{2}\right)=$
e. $G(\pi)=$
f. $G\left(\frac{3 \pi}{2}\right)=$
g. $G(2 \pi)=$
