Name $\qquad$ Quiz 5

1) Find the indefinite integral below.

$$
\int e^{3 x} d x
$$

2) Find the definite integral below.

$$
\int_{2}^{4} \frac{x^{3}}{4} d x
$$

3) The expression gives the area under $y=f(x)$ between $x=1$ and $x=3$. What is $f(x)$ ?

$$
\lim _{n \rightarrow \infty} \sum_{k=1}^{n} \frac{2}{n} \cdot\left(3\left(1+k \frac{2}{n}\right)\right)^{4}
$$

