Math 141 - Calculus Name_____
Section 5.3 Video Worksheet

Definite Intergral

$$\lim_{\|P\|\to 0}\sum_{k=1}^{n} f\left(c_k\right)\Delta x_k =$$

$$\lim_{n\to\infty}\sum_{k=1}^{n} f\left(c_k\right)\Delta x_k =$$

A continuous function is

$$\int_a^b f\left(x\right)dx =$$

1. $\int_a^b f\left(x\right)dx =$
2. $\int_a^a f\left(x\right)dx =$
3. $\int_a^b Kf\left(x\right)dx =$
4. $\int_a^b \left(f\left(x\right)\pm g\left(x\right)\right)dx =$
5. $\int_a^b f\left(x\right)dx + \int_b^c f\left(x\right)dx =$

6. Max-Min inequality -

7. Domination

$$\lim_{\|P\|\to 0} \sum_{K=1}^{n} 2{c_K}^3 \Delta x_K$$