AP Calculus AB Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Definite Integrals Notes

**The Definite Integral**



Rewrite each of the following as a definite integral:

1.  on [0, 1]

2.  on [1, 3]

3.  on [0, 4]

**The Fundamental Theorem of Calculus**

 If f is a continuous function on [a, b], then



Examples:

1.  2. 

3. 

**Properties of Definite Integrals:**

1. 

2. 

3. 

4. 

5. 

6. 

Examples:

1. 

2. Given:  and 

Find: 

3. Given:  and 

 Find: 

 Find: 

4. Given:  and 

 Find: 