## Reading Quiz 08 for Calculus 3096

Name : $\qquad$ Student ID \# : $\qquad$ Score : $\qquad$

Read pages 298-301, 318-322, 326-329, 335, 339 of chapter 6

1. What does it mean to antidifferentiate a function?
2. State the formula for $\int h(x) d x$ for each of the following functions.
(a) $\int x^{r}(r \neq-1) d x=$
(b) $\int e^{r} d x=$
(c) $\int \frac{1}{x} d x=$
(d) $\int k f(x) d x=$
(e) $\int f(x)+g(x) d x=$
3. State the Fundamental Theorem of Calculus.
4. Outline a procedure for finding the area of the region bounded by two curves.
5. State the formula for each of the following quantities:
(a) average value of a function $f$ on the interval $[a, b]$
(b) volume of a solid of revolution
