Assignments should be neatly-written, well-organized and concise.

If you miss a class and need to get an assignment, see

http://www.math.uakron.edu/~dpstory/

All class assignments and other announcements will be posted on this web site.

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1. Problem 1(b).

2. Problem 3. (Hint: See your undergraduate Calculus text :-)

3. Let $f: [-1, 1] \rightarrow \mathbb{R}$ be a bounded function. Let

$$
\alpha(x) = \begin{cases} 
0 & x \leq 0 \\
1 & x > 0 
\end{cases}
$$

Prove that $f \in \mathcal{R}([-1, 1], \alpha)$ if and only if $f(0+) = f(0)^1$. Further, if $f \in \mathcal{R}([-1, 1], \alpha)$ then

$$
\int_{-1}^{1} f \ d\alpha = f(0).
$$


\[1\text{Recall: } f(0+) = \lim_{x \to 0^+} f(x). \text{ The condition } f(0+) = f(0) \text{ can be described by saying “}f\text{ is continuous from the right at 0”}\]