## Exercise 81

Simplifying Absolute Value Express the quantity without using absolute value.

$$
|a-b|, \text { where } a<b
$$

## Solution

Since $a<b, a-b$ is less than zero. The absolute value sign, then, can be removed only if a minus sign is placed in front of the quantity.

$$
|a-b|=-(a-b)=b-a
$$

