



A diagram illustrating the addition of two segments. The top part shows two separate segments: the first has endpoints marked with brown circles and is labeled  $a + k$ ; the second also has endpoints marked with brown circles and is labeled  $k + b$ . A green line segment is shown at the end of the first segment and the beginning of the second segment, indicating they share a common point. Below this, a single horizontal line with two brown endpoints represents the combined segment, labeled  $a + b$ .

$$a + k$$

$$k + b$$

$$a + b$$