Angles in the Same Segment — Worksheet

Angles subtended by the same chord at the circumference, in the same segment, are equal.

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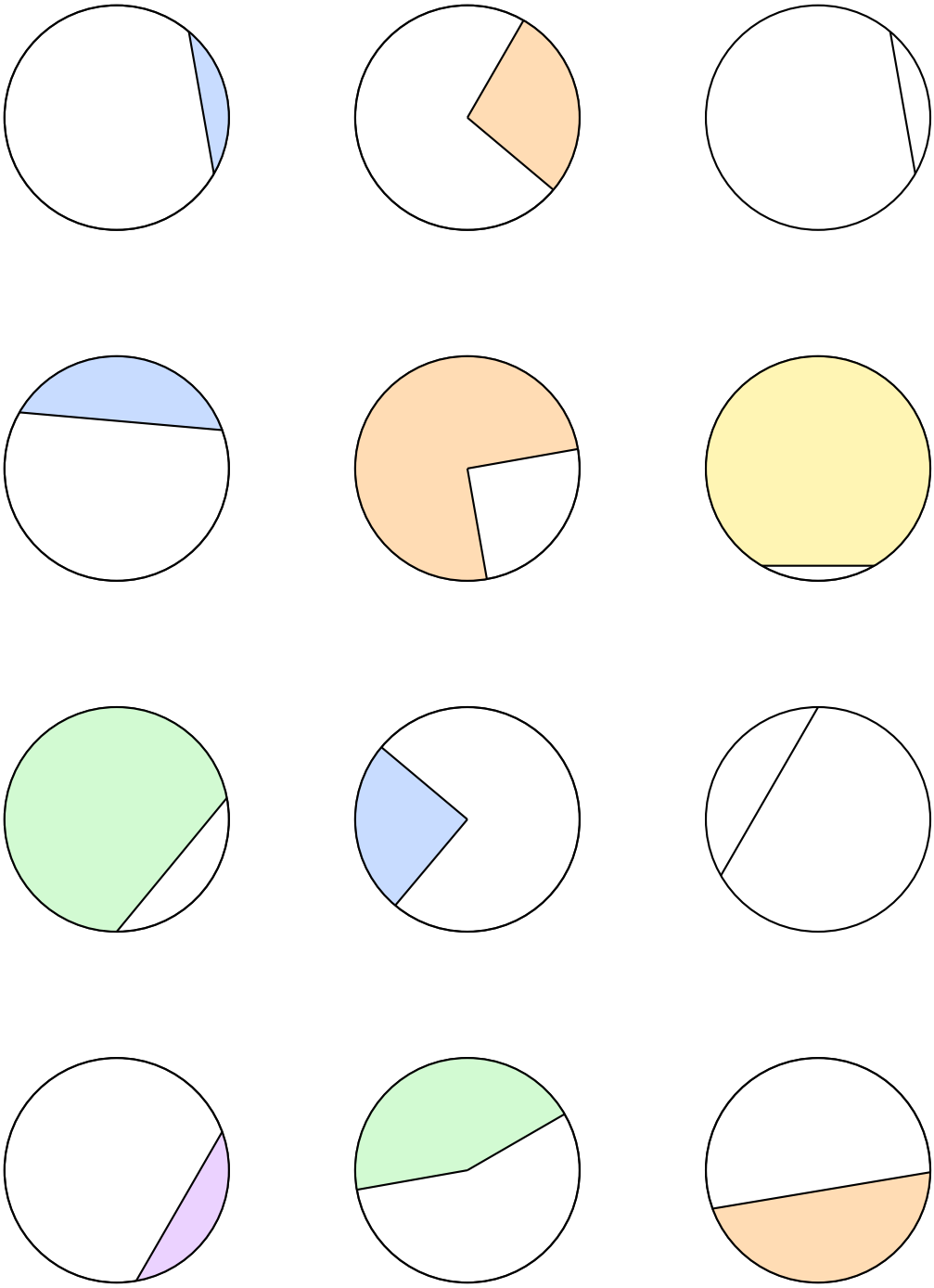
1) Identify the segments. In each diagram below, decide whether the *shaded* region is a **segment**, a **sector**, or neither (e.g. just a chord). Tick the ones that are **segments**.



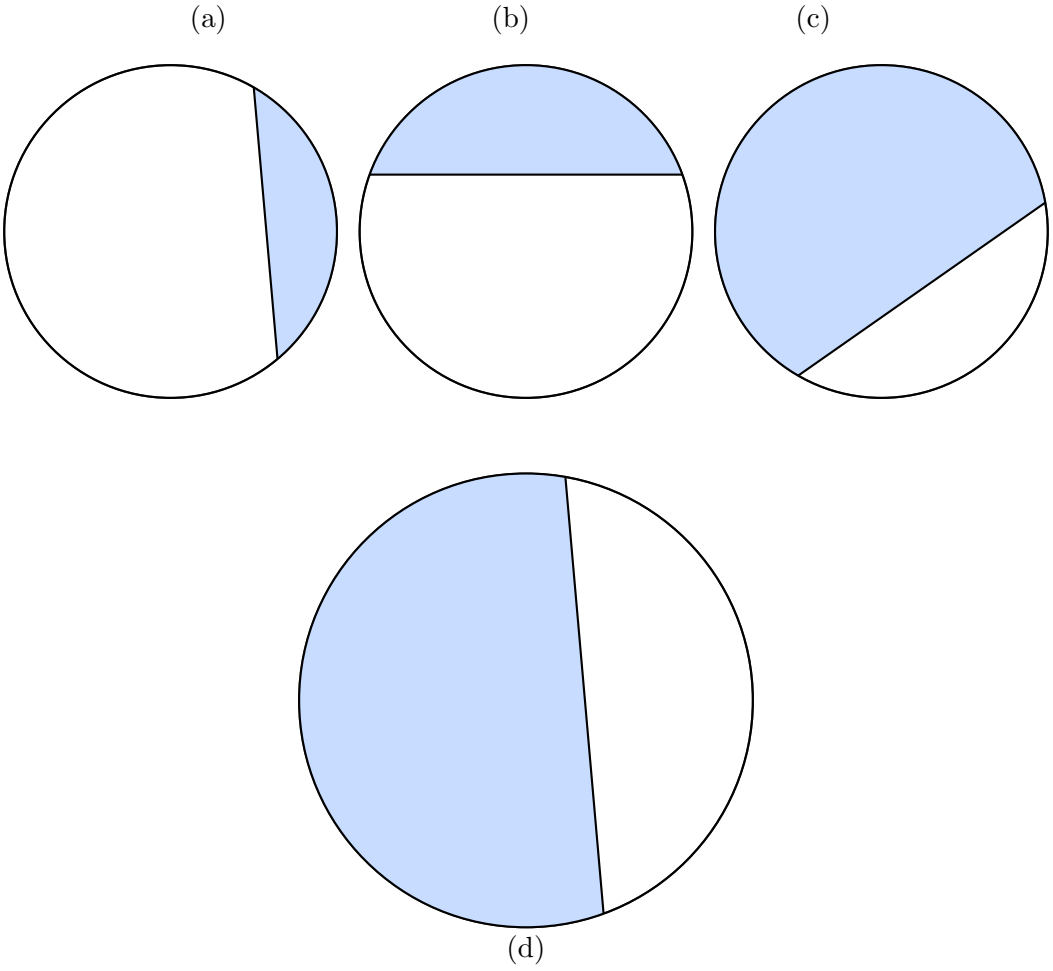
2) Draw angles in a given segment. In each circle, the **segment** has been shaded. *Draw angles at the circumference* in the shaded segment.

(a) Draw **1** angle.

(b) Draw **2** different angles.

(c) Draw **3** different angles.

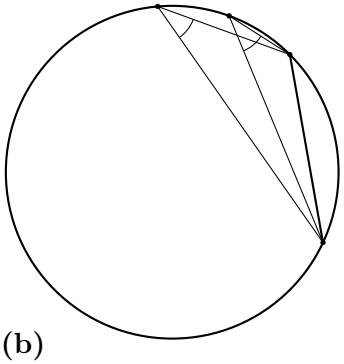
(d) Draw **10** different angles.

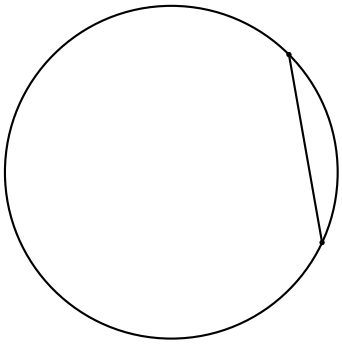


Reminder: Each angle's vertex must lie on the circumference in the shaded segment

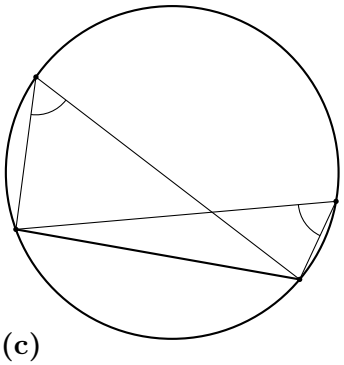
3) Interpreting the theorem. For each pair, the **left** diagram shows two equal angles subtended by the same chord (*angles in the same segment are equal*). On the **right**, shade the **segment and arc** that the theorem refers to.

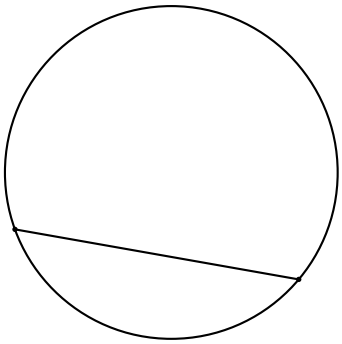
(a)



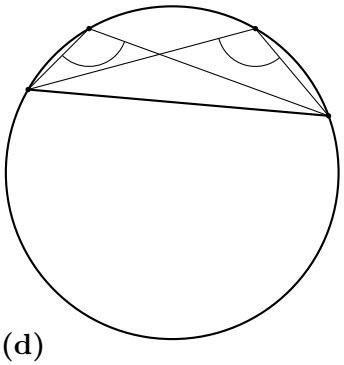


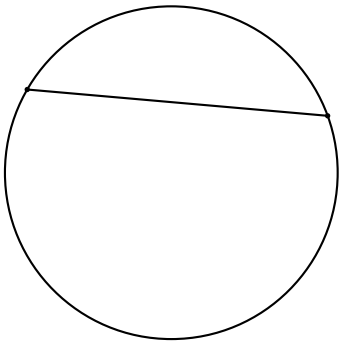
(b)





(c)





(d)