Some notes from class

2018-03-21

Subsets of the real numbers

Example 1:

$$S = \left\{ \frac{3}{4}, \frac{4}{5}, \frac{5}{6}, \frac{6}{7}, \dots \right\} \subseteq \mathbb{R}$$

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Example 2:

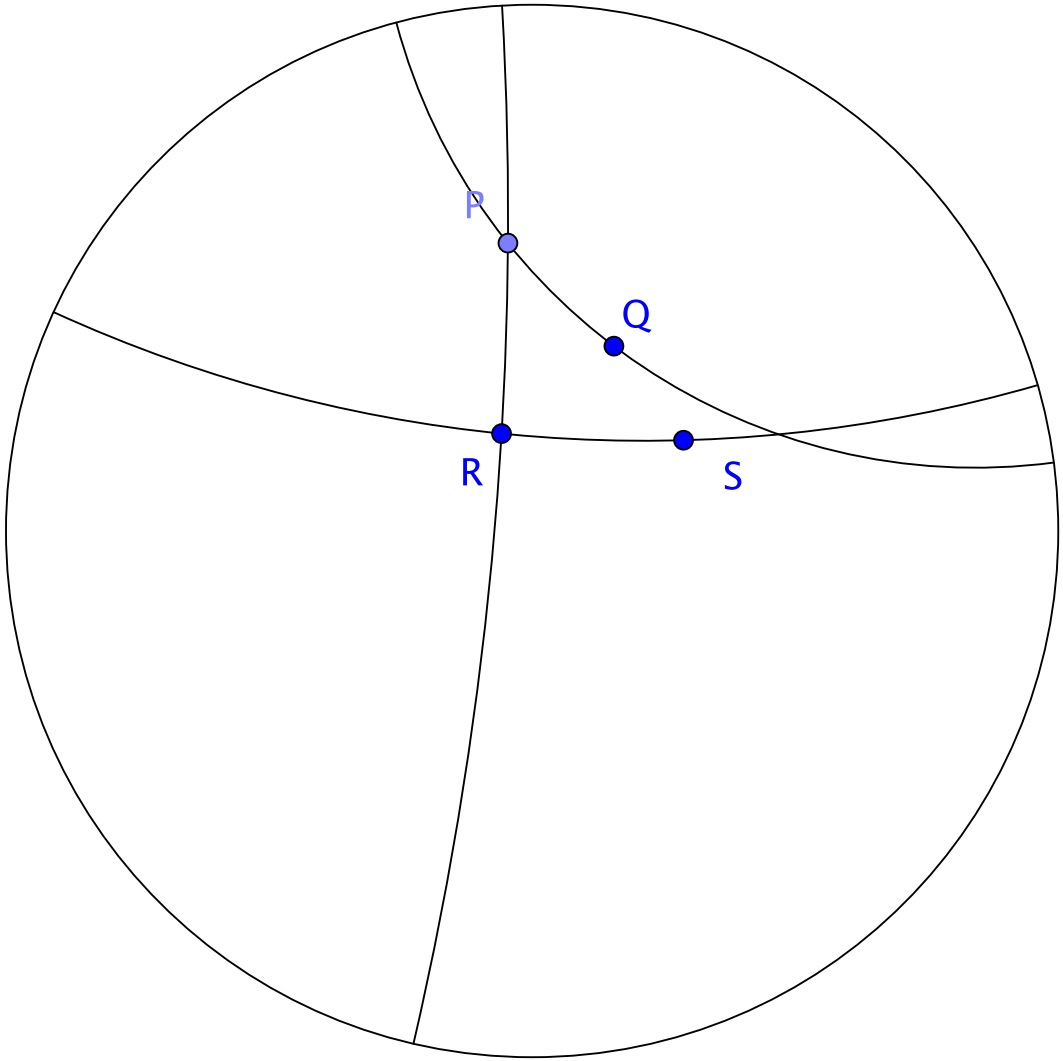
$$S = \{3,\ 3.1,\ 3.14,\ 3.141,\ 3.1415, \ldots\} \subseteq \mathbb{R}$$

Set-up for the next few results

The "usual set-up"

Let R and S be points with $R \neq S$, and suppose that P is a point not on $\overleftrightarrow{RS}$ with $\overleftrightarrow{PR} \perp \overleftrightarrow{RS}$. We will typically be interested in rays of the form $\overrightarrow{RQ}$, where Q is a point on the same side of $\overleftrightarrow{PR}$ as S.

Angle of parallelism



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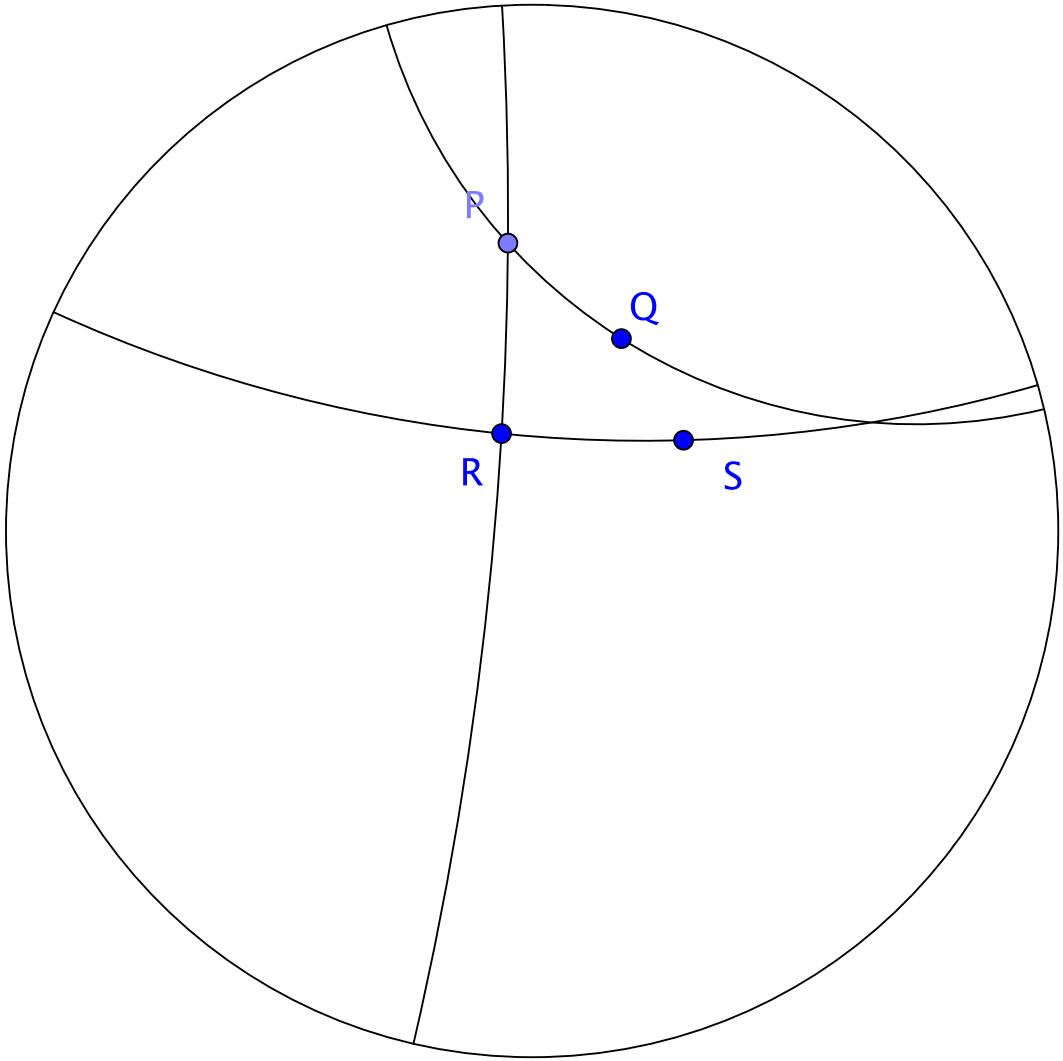

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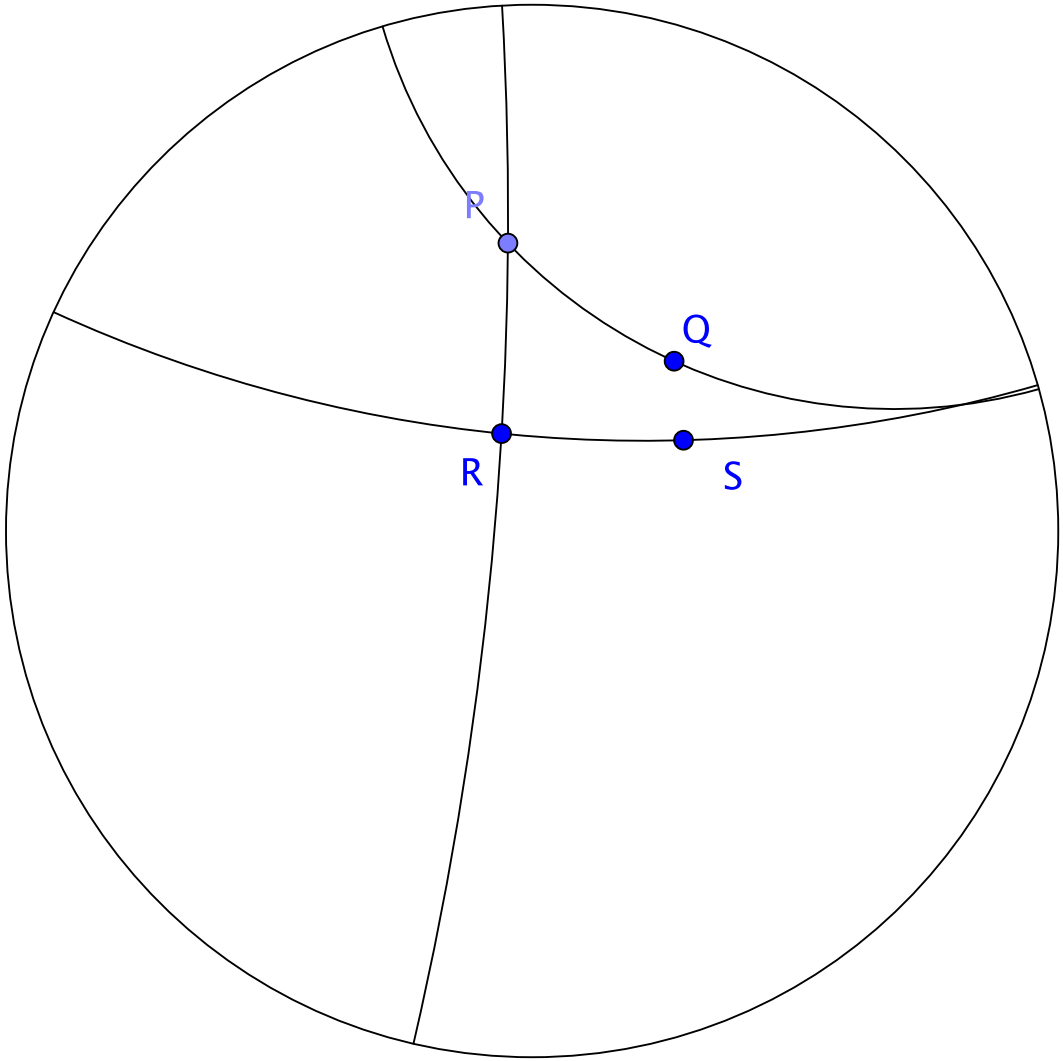

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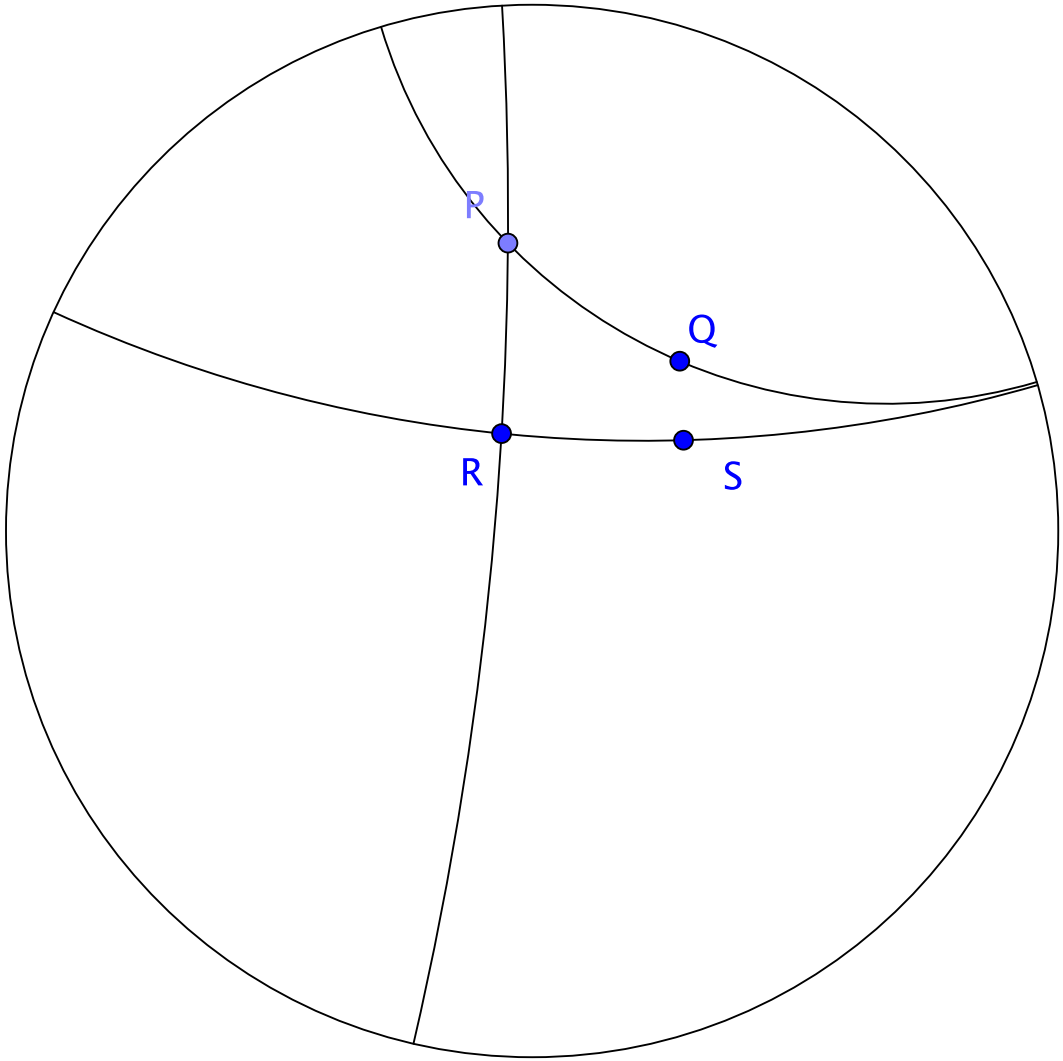

Angle of parallelism