When extension lines of two chords of a circle make an intersection outside of the circle, products of distances from the intersection to two endpoints of each chord are equal.

한 원에서 두 현의 연장선이 원 외부에서 만날 때, 두 현의 연장선의 교점으로부터 각 현의 두 끝점까지의 거리의 곱은 같다.

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\[ a : a' = b' : b \]
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\[ a : a' = b' : b \]

\[ a \times b = a' \times b' \]
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\[
\begin{align*}
  a : a' &= b' : b \\
  a \times b &= a' \times b' 
\end{align*}
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\[
\frac{a}{a'} = \frac{b'}{b} \quad a \times b = a' \times b'
\]
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Github:
https://min7014.github.io/math20200219001.html

Click or paste URL into the URL search bar, and you can see a picture moving.