In the diagram, we may assume:

All points shown are in the same plane.
\( \overrightarrow{AB}, \overrightarrow{BD}, \) and \( \overrightarrow{BE} \) intersect at \( B \).

\( A, B, \) and \( C \) are on the same line.

\( B \) is between \( A \) and \( C \).

\( \angle ABC \) is a straight angle.

\( D \) is in the interior of \( \angle ABE \).

\( \angle ABD \) and \( \angle DBE \) are adjacent angles.

We may not assume:

\( AB \cong BC \)

\( \angle ABD \cong \angle DBE \)

\( \angle CBE \) is a right angle.