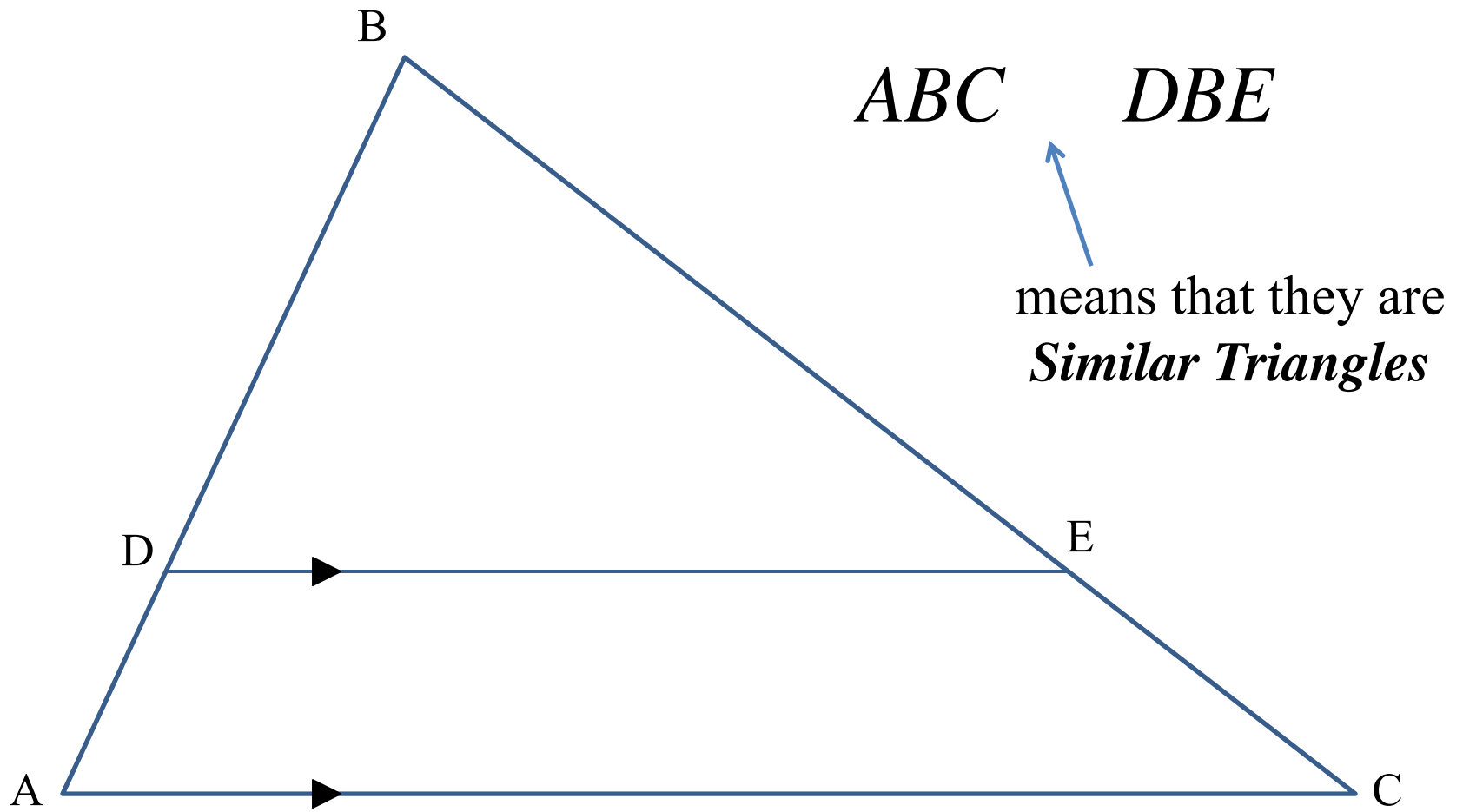


Similar Triangles

Standards 7e & 7f



How could this be proven?

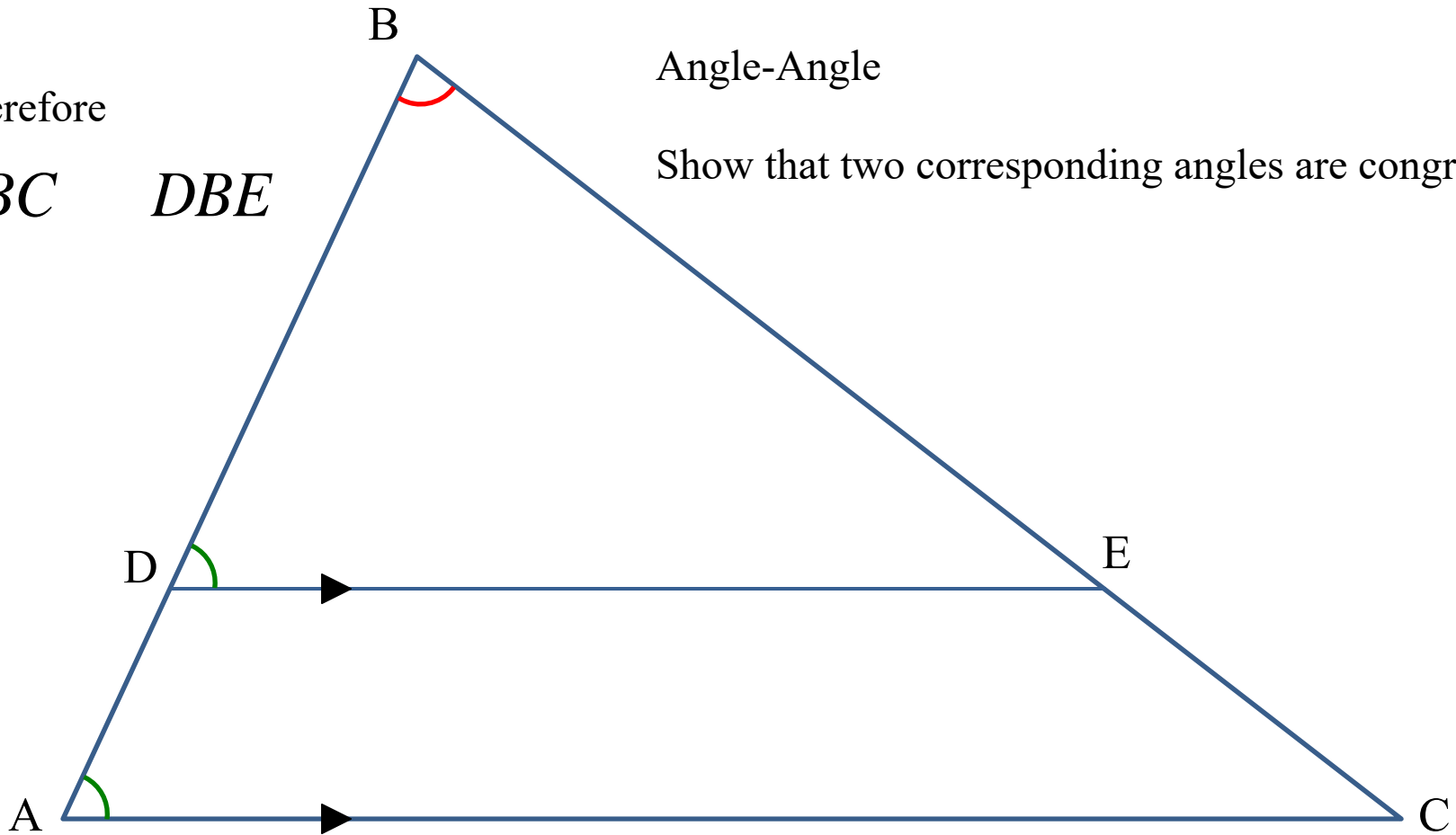
Therefore

ABC

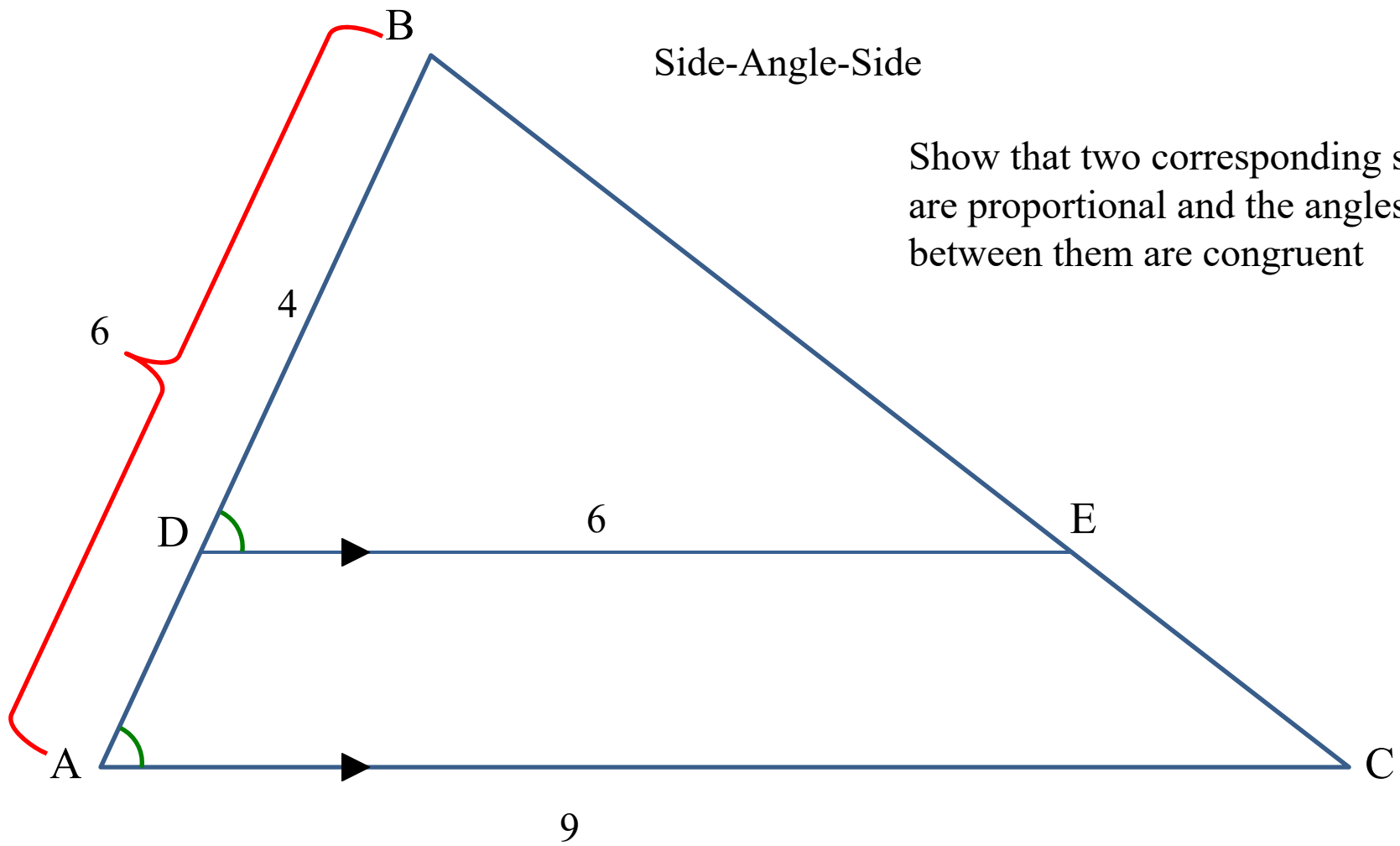
DBE

Angle-Angle

Show that two corresponding angles are congruent

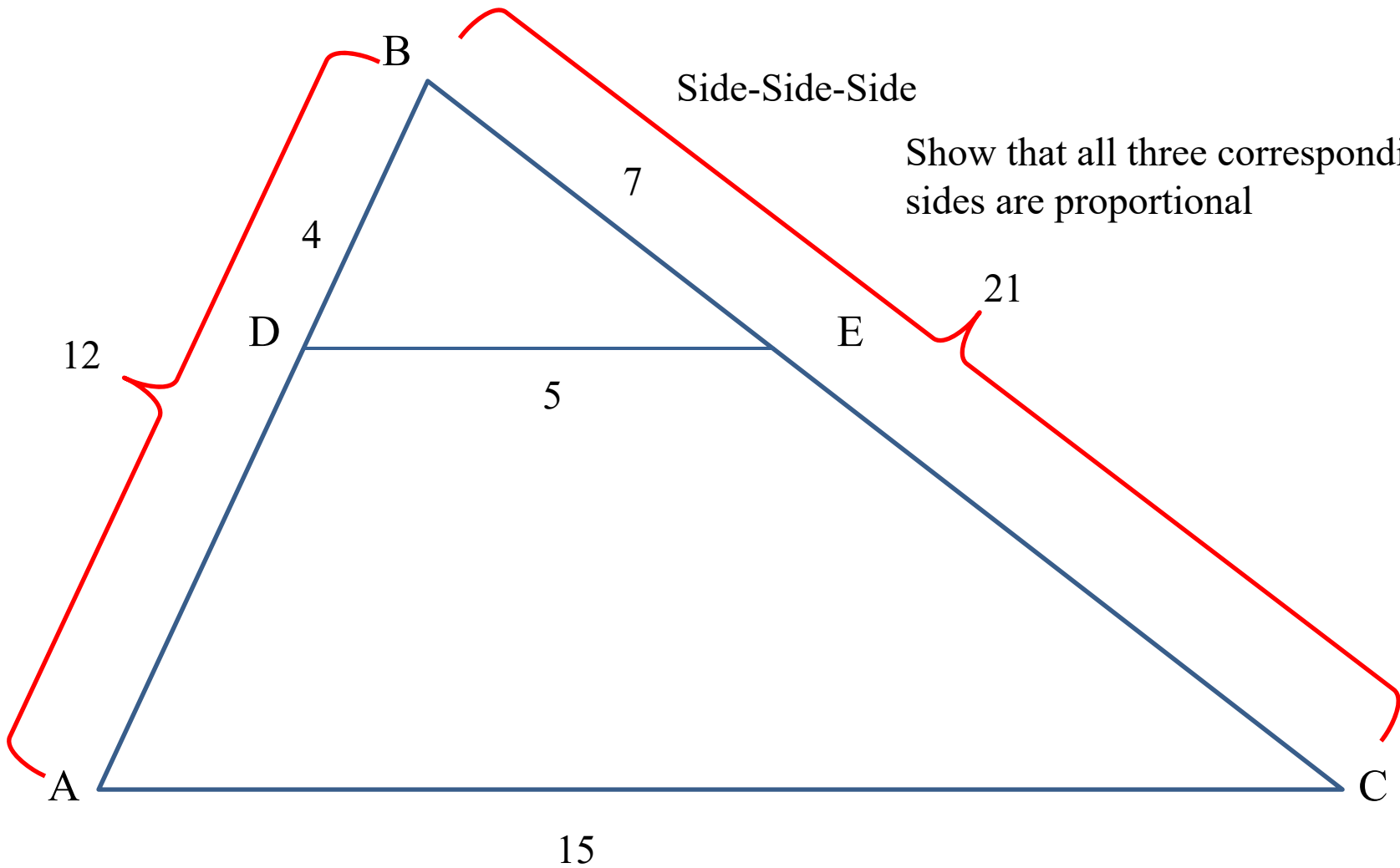


Third Angle Theorem is enough to take care of that last pair of angles



Show that two corresponding sides are proportional and the angles between them are congruent

$$\frac{AB}{DB} = \frac{AC}{DE} \longrightarrow \frac{6}{4} = \frac{9}{6} = \frac{3}{2} \quad \text{Therefore } \triangle ABC \sim \triangle DBE$$

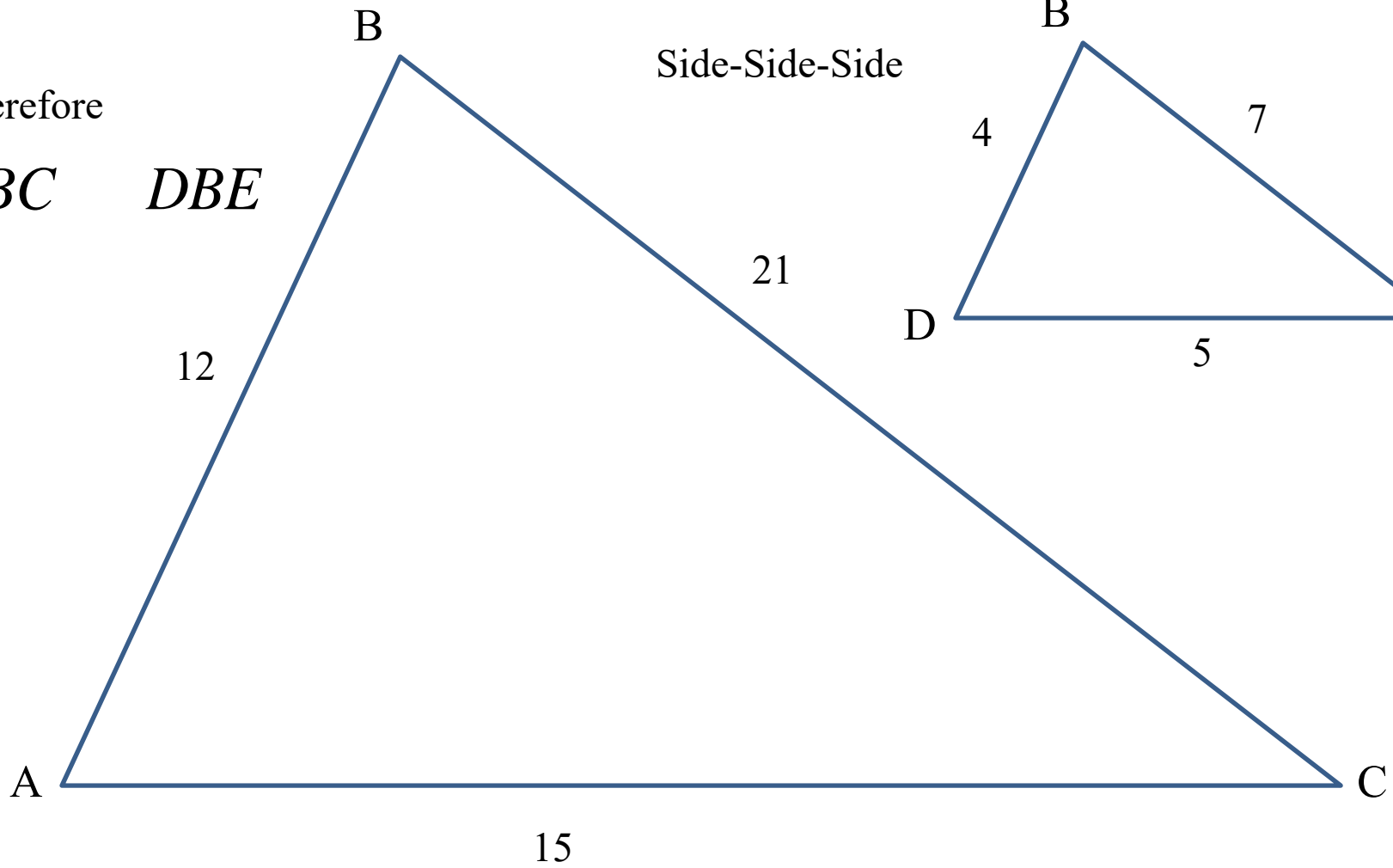


$$\frac{AB}{DB} = \frac{AC}{DE} = \frac{BC}{BE} \longrightarrow \frac{12}{4} = \frac{15}{5} = \frac{21}{7} = \frac{3}{1}$$

Therefore

ABC

DBE



$$\frac{AB}{DB} = \frac{AC}{DE} = \frac{BC}{BE} \longrightarrow \frac{12}{4} = \frac{15}{5} = \frac{21}{7} = \frac{3}{1}$$