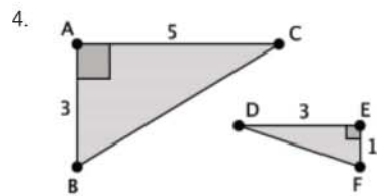
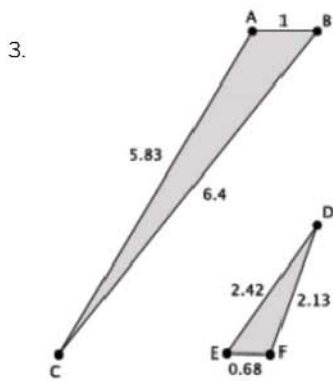
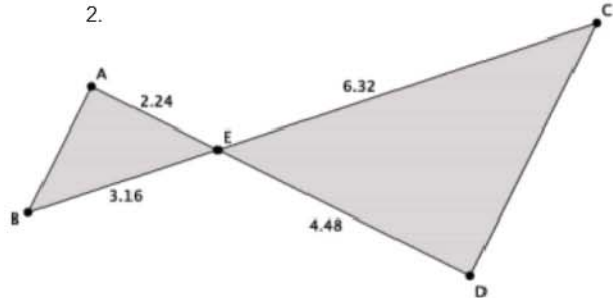
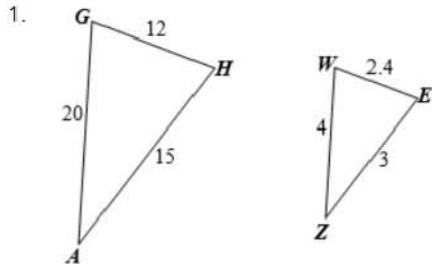
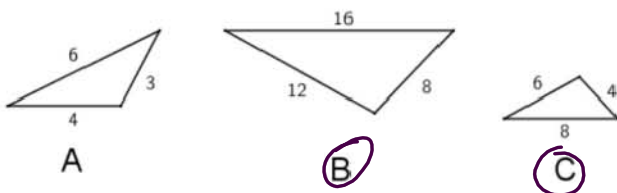


Determine if the triangles are similar. Explain why or why not:



5. Determine which triangles, if any, are similar: Explain why or why not.

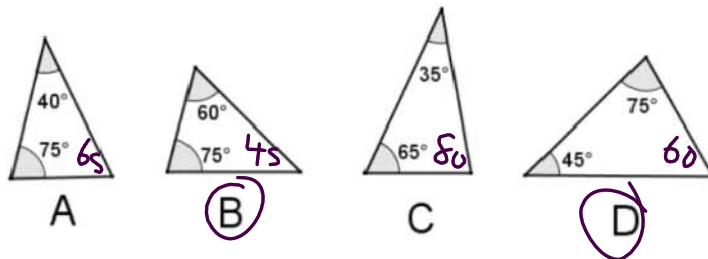


SSS Similarity

$$\frac{6}{16} = \frac{3}{8} = \frac{4}{12} \quad \frac{16}{8} = \frac{8}{4} = \frac{12}{6}$$

.375 .375 .333 2 2 2

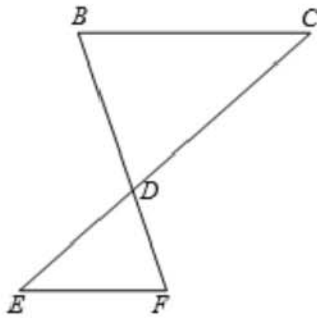
6. Determine which triangles, if any, are similar. Explain why or why not.



AA \cong AA

7. Given: $\overline{BC} \parallel \overline{EF}$

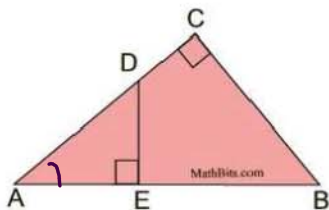
Prove: $BD \times DE = DF \times DC$



8.

Given: $\angle C$ and $\angle DEA$ right \angle s

→ Prove: $AD \cdot BC = AB \cdot DE$



Statement	Reason
① $\angle C$ and $\angle DEA$ are right \angle 's	① Given
② $\angle C \cong \angle DEA$	② All right \angle 's are \cong
③ $\angle A \cong \angle A$	③ Reflexive Property
④ $\triangle ADE \sim \triangle ABC$	④ $AA \cong AA$
⑤ $\frac{AD}{AB} = \frac{DE}{BC}$	⑤ Corresponding sides of similar \triangle 's are in proportion
⑥ $AD \cdot BC = AB \cdot DE$	⑥ In a proportion, the product of the means equals the product of the extremes