

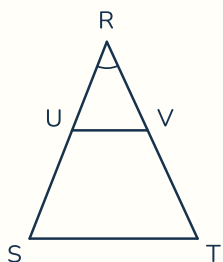
Write a triangle proof — Write a similarity proof

Name: _____

Date: _____

Write a full two-column proof that the triangles are similar.

1



Given $RU/RS = RV/RT$

Prove $\triangle RUV \sim \triangle RST$

Statements

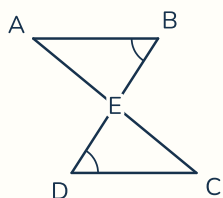
Reasons

1.

2.

3.

2



Given $\angle ABE \cong \angle CDE$

Prove $\triangle ABE \sim \triangle CDE$

Statements

Reasons

1.

2.

3.



Write a triangle proof · Write a similarity proof — Answer key

1. $\triangle RUV \sim \triangle RST$ — 1. $\angle R \cong \angle R$ — Reflexive Property; 2. $RU/RS = RV/RT$ — Given; 3. $\triangle RUV \sim \triangle RST$ — SAS ~
2. $\triangle ABE \sim \triangle CDE$ — 1. $\angle ABE \cong \angle CDE$ — Given; 2. $\angle AEB \cong \angle CED$ — Vertical Angles; 3. $\triangle ABE \sim \triangle CDE$ — AA ~

