

Proving Triangles Similar

Content Standards:

- Apply methods to prove triangles similar.

Process Standards:

- Explain thought processes when solving a problem.

Task:

We have learned two methods in order to prove triangles similar. You will complete proofs on your own. When finished, you will compare with your partner on how each of you completed your proofs. Afterwards, you will look at your own work and write a paragraph reflecting on how you did with the proofs.

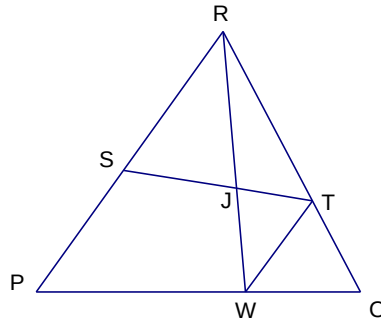
Criteria:

- Statements in proof are correct
- Reasons in proof are correct
- Paragraph reflects on student work

Complete a two-step proof.

1. Given: $\overline{RP} \parallel \overline{TW}$

Prove: $\triangle RSJ \sim \triangle WTJ$

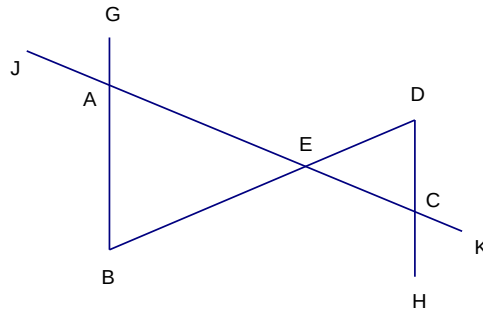


STATEMENTS

REASONS

2. Given: $\angle JAG \cong \angle HCK$

Prove: $\triangle ABE \sim \triangle CDE$

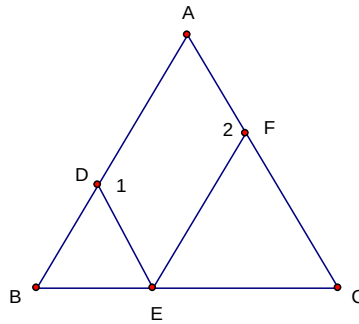


STATEMENTS

REASONS

3. Given: $\overline{AB} \cong \overline{AC}$, $\angle 1 \cong \angle 2$

Prove: $\triangle DBE \sim \triangle FCE$



STATEMENTS

REASONS

After you compare your proofs with your partner, write a paragraph to reflect on how you did. Did you have all the steps for your proofs? Were you missing any specific steps? Did you write your reasons correctly? Write any other comments you have.

Rubric

Criteria	Poor	Satisfactory	Great
Statements in proof are correct	Statements in proofs are not all correct or very little correct (0 - 2 pts)	Many statements in proofs are correct and many are incorrect (3 - 4 points)	Statements in proofs are almost all correct (5 - 6 pts)
Reasons in proof are correct	Reasons in proofs are not all correct or very little correct (0 - 2 pts)	Many reasons in proofs are correct and many are incorrect (3 - 4 points)	Reasons in proofs are almost all correct (5 - 6 pts)
Self-reflection	Did not self-reflect (0 pts)	Little self-reflection (1 pt)	Complete self-reflection (2 pts)

Total _____/14