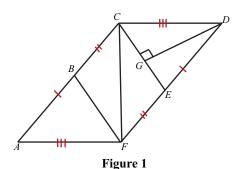
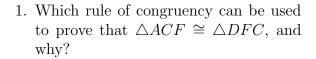
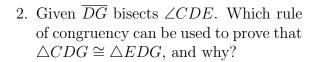
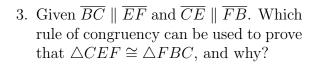
Handout 3: The Grass is Always Greener On The Adjacent Side



Use Figure 1 for questions 1-3.

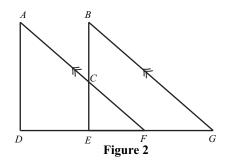






Use Figure 2 for questions 4-10.

4. What allows us to say that $\angle ADF \cong$ $\angle BEG?$



- 5. What allows us to say that $\overline{EF} \cong \overline{EF}$?
- 6. What allows us to say that $\overline{DE} + \overline{EF} \cong$ $\overline{FG} + \overline{EF}$?
- 7. What allows us to say that $\overline{DE} + \overline{EF} \cong$ \overline{DF} and $\overline{FG} + \overline{EF} \cong \overline{EG}$?
- 8. What allows us to say that $\overline{DF} \cong \overline{EG}$?
- 9. What allows us to say that $\angle AFD \cong$ $\angle BGE$?
- 10. What proves that $\triangle ADF$ and $\triangle BEG$ are congruent?

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