Unit 2
Lesson 6 Summary

Let's show that triangle $ABC$ is similar to triangle $DEF$:

Two figures are **similar** if one figure can be transformed into the other by a sequence of translations, rotations, reflections, and dilations. There are many correct sequences of transformations, but we only need to describe one to show that two figures are similar.

One way to get from $ABC$ to $DEF$ follows these steps:

- step 1: reflect across line $f$
- step 2: rotate $90^\circ$ counterclockwise around $D$
- step 3: dilate with center $D$ and scale factor 2

Another way would be to dilate triangle $ABC$ by a scale factor of 2 with center of dilation $A$, then translate $A$ to $D$, then reflect over a vertical line through $D$, and finally rotate it so it matches up with triangle $DEF$. What steps would you choose to show the two triangles are similar?

**Lesson 6 Glossary Terms**

- similar