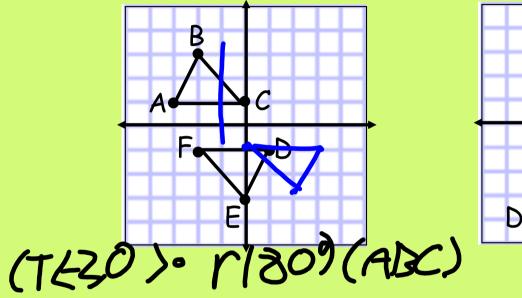
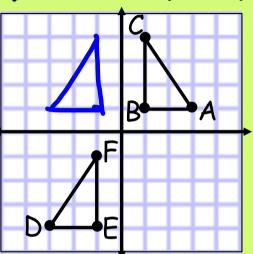
3/3/20 - Warm Up Problem

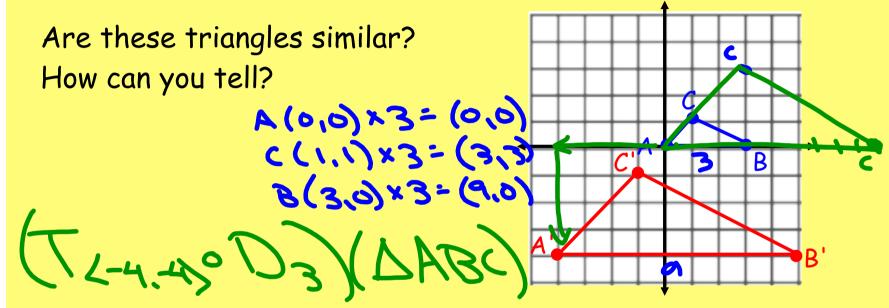
Write a composition of transformations that would map Triangle ABC onto Triangle DEFL 0,-5X(Ryais)(HSLA)





Concept 22 - Similarity Transformations

Goal: write a composition of transformations to map a figure onto a similar figure



Similarity Transformation: a composition of a dilation and one or more rigid motions

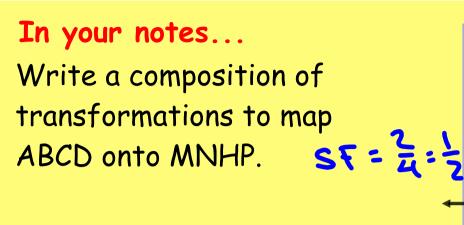
- you can prove two shapes are similar by writing a similarity transformation

Write a composition of transformations to map ΔRST onto ΔPYZ .

Step 1: Dilate the figures to be the same size

Step 2: Move one figure onto the other using translations, rotations, and reflections





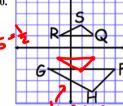
(Ry-amso D) (ABCD)

Assignment:

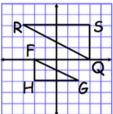
finish Concept 22 Worksheet

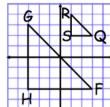
For each graph, write the composition of transformations that map ΔFGH to ΔQRS sing function notation.

10.

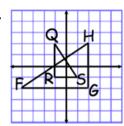


11.

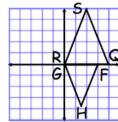




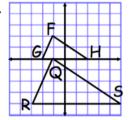
13.



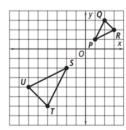
14.



15.



- 16. Which similarity transformation does not map Δ PQR onto Δ STU?
 - a. $(\underline{\mathbf{r}}_{(180^\circ, O)} \circ \mathbf{D}_2)(\Delta PQR)$
 - b. $(D_2 \circ \underline{r}_{(180^\circ, O)}(\Delta PQR)$
 - $c. \ (D_2 \circ R_{x\text{-axis}} \circ R_{y\text{-}\underline{axis}})\!(\Delta PQR)$
 - d. $(D_2 \circ R_{x\text{-axis}} \circ r_{(90 \stackrel{\circ}{\sim}, 0)})(\Delta PQR)$



17. The composition $(T_{<2,1}> \circ D_3)$ describes a similarity transformation. If the order of the composition is changed to be $(D_3 \circ T_{<2,1>})$, does that describe the same transformation? Explain.