

Print your name: \_\_\_\_\_

1. Show the math that is involved in showing that there is no regular tiling of the plane by regular pentagons.

2. Draw the image of the triangle E (and its label, the letter E) under the dilation with pictured center and scaling factor  $\frac{1}{3}$ :



●  
center

3. Name the type of regular polygons that can be used in a regular tiling of the plane.