**Theorem 6:** The isometric image of a circle is a circle with the same radius.

Let \_\_\_\_ be a circle with radius \_\_\_\_ and center \_\_\_\_\_.

Let \_\_\_\_ be a point on circle \_\_\_\_\_.

Let \_\_\_\_ be an isometry.

Let \_\_\_\_\* be the image of \_\_\_\_ (point on circle), and \_\_\_\_\_† be the image of \_\_\_\_ (center)

(maybe name more things?)

To prove: \_\_\_\_\_ \* is on the circle of radius \_\_\_\_\_ and center \_\_\_\_\_†.