Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Hour: \_\_\_\_\_\_\_\_\_\_\_\_\_

**Area of Regular Polygons- Given a Radius HW**

Find the area of each regular polygon given the information. Round your answers to the nearest tenth.

1. A regular heptagon with r = 10m 2. A regular dodecagon with r = 3in



10km

3. 4.

16m

12m

5. 6.

Find the area of each shaded region, rounding to the nearest tenth.

10km

7.

12m

8.

16m

9.



10.