Geometry Honors
Unit 11 Area of Polygons
Mathematician: $\qquad$
11.1d Review - Find Area of Polygons

LEVEL: EMERGING
Directions: Find the area of the polygon. If necessary, round answers to the nearest thousandth.


Directions: Find the area of the given diagram.
7)

$\qquad$

Directions: Find the area of the following regular polygons given the description. If necessary, round answers to the nearest thousandth.
8) A regular triangle with a side length of 10 in .

Area $=$ $\qquad$
9) A regular hexagon with a radius of 8 cm .
10) A regular dodecagon (12
sides) with an apothem of 19.5
in.

Area $=$ $\qquad$

## LEVEL: MASTERY

Directions: Find the indicated area of each inscribed polygon. If necessary, round answers to the nearest thousandth.
11) Area outside the polygon but inside the circle.

12) Area outside the polygon but inside the circle.
Area $=$ $\qquad$
13) The shaded regions if the radius of the large circle is 12 in .

$\qquad$ Area $=$ $\qquad$

