Find the perimeter (or circumference) and area of the figure. Give all of your answers in exact form. If necessary, leave your answer in terms of \( \pi \).

1. \[ \text{Perimeter} = \quad \text{Area} = \]

2. \[ \text{Perimeter} = \quad \text{Area} = \]

3. \[ \text{Perimeter} = \quad \text{Area} = \]

4. \[ \text{Perimeter} = \quad \text{Area} = \]

5. \[ \text{Perimeter} = \quad \text{Area} = \]

6. \[ \text{Perimeter} = \quad \text{Area} = \]

7. \[ \text{Perimeter} = \quad \text{Area} = \]

8. \[ \text{Perimeter} = \quad \text{Area} = \]

9. \[ \text{Perimeter} = \quad \text{Area} = \]

10. \[ \text{Perimeter} = \quad \text{Area} = \]

11. \[ \text{Perimeter} = \quad \text{Area} = \]

12. \[ \text{Perimeter} = \quad \text{Area} = \]

*Perimeter = (to nearest 1000th)*
13. **Shingles** You are buying shingles for a roof. Each bundle of shingles will cover 27 square feet. The roof consists of two rectangular parts, and each is 70 feet by 30 feet. How many bundles of shingles do you need?

14. **Irrigation** A new irrigation system has been installed. Each irrigation arm covers a circular region with a radius of 35 feet. How many square feet will 4 irrigation arms cover?

15. The area of a circle is $25\pi$ in.$^2$. What is its radius?

16. A rectangle has twice the area of a square. The rectangle is 18 in. by 4 in. What is the perimeter of the square?

Find the **perimeter** (or circumference) and **area** of the figure. (Where necessary, use $\pi \approx 3.14$.)  **Show all work!!!**

17.

18.