Dieckmann - Geometry Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Unit 11 Test Review (Chapter 11) Hour \_\_\_\_\_\_\_\_

**NO CALCULATOR PORTION**

1. In a trapezoid, the long base is 4x and the shorter base is x. The height is 10 cm. What is the area?

2. A kite has an area of 4x2 and the length of one diagonal is 2x. What is the length of the second diagonal?

3. Find the perimeter of a parallelogram in which the $A=4x$, if one of the sides is 4.

4. Find the area and perimeter of a square where each side is (x – 3) in.

5. Find the height of a trapezoid in which A = 140 cm2, b1 = 8cm, b2 = 20cm.

6. Find the area of a circle whose$ C=20xπ$.

7. Find the area of a circle whose center is at (2, 1) and goes through the point (-1, 5).

8. Find the diameter of a circle in which the area is$ 36π in^{2}$.

**CALCULATOR PORTION**

Round all answers to the nearest tenth unless otherwise noted. *Show all your work!*

 9. Find the area of the parallelogram.

10. The side lengths of an equilateral triangle are 12cm. Find the area of the triangle.

11. A square’s diagonal measures 4$\sqrt{2}$ mm. Find its area.

12. Find the area of the rhombus below if the side lengths are each 10 m.

13. Find the area of a kite where two side lengths are 5 inches, the other two side lengths are 8 inches, and ½ of the horizontal diagonals is 3.

14. Find the sector area. Round your answer to the nearest tenth.

15. Find $\hat{AB}$

16. Find the area. 17. Find the area.

18. Given that the circle is inside the square, find the area of the region not covered by the circle.

19. Graph the polygon with vertices *A*(–5, –2), *B*(-2, -5), *C*(3, -3), and *D*(3, 0). Then find the perimeter and area.