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

**ELIGIBILITY** Review Hour \_\_\_\_\_\_\_\_

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

 **1.** Find the area of the parallelogram. **2.** What value of *b* makes the area of the trapezoid equal to 138 cm2?

**3.** A kite has an area of 3x2 and the length of one diagonal is 2x that is the length of the second diagonal?

**4.** Given that the circle is inside the square, find area of the shaded region



**5.** Find the area of a circle whose circumference is 20xπ (in terms of π).

**6.** Find the height of a trapezoid in which A = 280 cm2, b1 = 8cm, b2 = 20cm.

**Find the area.  Find the area.**

**7.** **8.**

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

**10.** The sides of an equilateral triangle are 4 cm. Find the area.

**11.** The center of a circle is at (5, –1) and goes through the point (4, 8). Find the area of the circle.

**12.** If the radius of a circle is multiplied by 5, describe the effect on the area.

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

**15.** Find the arc length. Round your answer to the nearest tenth.

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

