11.1 to 11.4 Review Sheet Extra

- 1. Find the area of the following
 - a) a Rectangle whose base is 6 and whose diagonal is 10
 - b) a square whose diagonal is 8
 - c) a parallelogram having two adjacent sides of 12 and 15 and an included angle of measure of 60.
- 2. Find the dimensions of each of the following:
 - a) A square whose area is 144
 - b) A rectangle whose area is 75 and whose base and height are in a ratio of 3:1
 - c) A rectangle having an area of 135 and whose base is x+2 and height is 2x+1
- 3. Find the area



- 4. Find the area of an equilateral triangle with a side of $16\sqrt{3}$
- 5. Find the length of the shorter diagonal of a rhombus if
 - a. The length of the longer diagonal is 15 and the area is 90.
 - b. The lengths of the diagonals are in the ratio of 2:3 and the area of the rhombus is 147.
- 6. Find the length of an altitude of a trapezoid if
 - a) its area is 72 and the sum of the bases is 36
 - b) Its area is 80 and its median is 16
 - c) The sum of the bases is one-third of the area of the trapezoid.
- 7. Find the area of a rhombus if its perimeter is 68 and the length of one diagonal is 16

8. Find the area of a triangle if the length of a pair of adjacent sides are 6 and 14 and the included angle is
a) 90 b) 30 c) 120

Answers: