

NAME \_\_\_\_\_

Ms. Kresovic

Adv Geo – \_\_\_\_\_

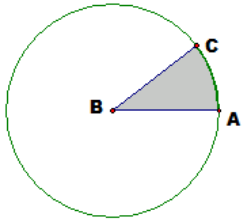
Date \_\_\_\_\_

## 9.1 &amp; 9.2 Mixed Practice

Directions: Provide exact answers, not estimates. Simplify/reduce any square roots or fractions. Leave answers in terms of  $\pi$ . Each exercise is worth 2 points. This classwork is due before you leave class today.

1. Simplify $\sqrt{124} + \sqrt{243} - 5\sqrt{3}$	2. Simplify $\frac{3}{\sqrt{2}}$
3. Solve $x^2 = 144$ .	4. Solve $x^2 + 8x = 0$
5. Solve $x^2 - 5x = 66$	6. Solve $8x^2 + 3x - 10 = 7x^2 - 20x + 40$

For exercises 7 – 11, you are given the following diagram,  $m\angle B = 40^\circ$ , and  $AB = 5$



7. Find the circumference of Circle B.

8. Find the area of circle B.

9. Find the  $m\widehat{AC}$ .

10. Find the length of  $\widehat{AC}$ .

11. Find the area of the shaded region (sector ABC).

12. In Circle O,  $m\widehat{AB} = 40$ . Find  $m\widehat{BC}$  and  $m\angle BCA$ .

