Student: ______

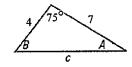
Instructor: Joe Betters

Course: Pre-Calculus Pre AP (Master

Assignment: 8.4 Classwork Day 1

Course)

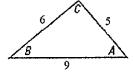
is Find the area K of the triangle.



K = square units

(Round to two decimal places as needed.)

2. Find the area K of the triangle.



K = square units

(Round to two decimal places as needed.)

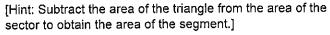
3. Use the formula given below to find the area of the triangle specified by $\alpha = 30^{\circ}$, $\beta = 40^{\circ}$, and a = 10.

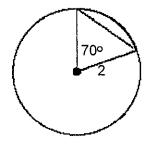
$$A = \frac{a^2 \sin \beta \sin \gamma}{2 \sin \alpha}$$

The area is square units.

(Do not round until the final answer. Then round to two decimal places as needed.)

4. Find the area of the segment (shaded in blue in the figure) of a circle whose radius is 2 feet, formed by a central angle of 70°.

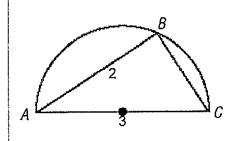




The area of the segment is approximately _____ square feet.

(Do not round until the final answer. Then round to two decimal places as needed.)

5. Computing Areas Find the area of the shaded region enclosed in a semicircle of diameter 3 centimeters. The length of the chord AB is 2 centimeters. [Hint: Triangle ABC is a right triangle.]



The area is approximately _____ square centimeters

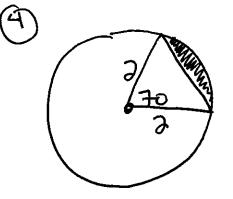
(Do not round until the final answer. Then round to two decimal places as needed.)

1. 13.52			
2. 14.14			
3. 60.40			
4. 0.56			
5. 1.30			

8.4 cm day 1

$$5 = \frac{1}{3}(6+5+9) = 10$$

8.4 cm day 1



*O in Radians

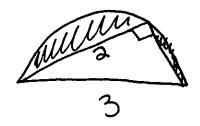
Sector =
$$\frac{1}{2}r^2\Theta$$

= $\frac{1}{2}(2)^2(70)(47/180) = 2.44346$

tr:angle= = = (2)(2) sin 70 = 1.87939

g.4 cu day 1





$$a^{2} + x^{2} = 3^{2}$$

OFFICE DESCRIPTION OF THE PROPERTY OF THE PROP

Area $\Delta = \frac{1}{3}(3)(\sqrt{5})(\sin 90)$

Area & circe= Tr2

$$= \pi \left(1.5\right)^2$$