Honors Pre-Calculus
HW 5 - Area of a Triangle

Name Key Date _____

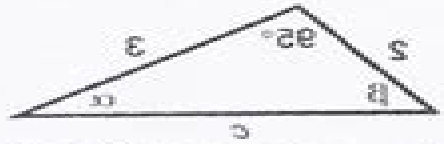
Find the area of each triangle. Round your answers to two decimal places.

1)

$A = \frac{1}{2}(4)(9)\sin 45°$

$\boxed{A \approx 9.83 \text{ square units}}$

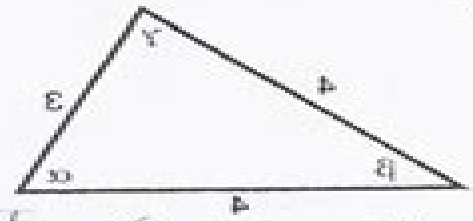
2)




$A = \frac{1}{2}(9)(3)\sin 95°$

$\boxed{A \approx 9.99 \text{ square units}}$

3)




$s = \frac{1}{2}(4+4+3) = \frac{11}{2}$

$A = \sqrt{\frac{11}{2}\left(\frac{11}{2}-4\right)\left(\frac{11}{2}-4\right)\left(\frac{11}{2}-3\right)} \approx \boxed{5.56 \text{ u}^2}$

4)

$s = \frac{1}{2}(9+4+6) = 9.5$

$A = \sqrt{9.5(9.5-9)(9.5-4)(9.5-6)}$

$\boxed{A \approx 9.56 \text{ u}^2}$

5) a = 3, c = 2, β = 110°

$A = \frac{1}{2}(3)(9)\sin 110°$

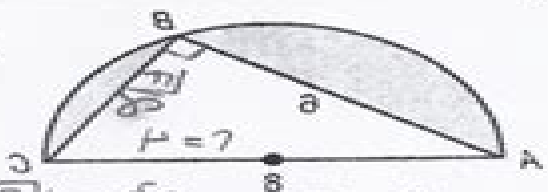
$\boxed{A \approx 9.89 \text{ u}^2}$

6) a = 9, b = 7, c = 10

$s = \frac{1}{2}(9+7+10) = 13$

$A = \sqrt{13(13-9)(13-7)(13-10)} \approx \boxed{30.59 \text{ u}^2}$

7) Find the area of the shaded region enclosed in a semicircle of diameter 8 centimeters. The length of the chord AB is 6 centimeters. (Hint: Triangle ABC is a right triangle.)




Area of semicircle $= \frac{1}{2}(\pi 4^2) = 8\pi$

Area of triangle $= \frac{1}{2}(6)(6\sqrt{3}) = 6\sqrt{3}$

Area of semicircle − Area triangle

$A = 8\pi - 6\sqrt{3}$

$A \approx 9.96$ sq. units

$8^2 - 6^2 = (BC)^2$

$\sqrt{28} = BC$

$6\sqrt{3} = BC$

8) The dimensions of a triangular lot are 100 feet by 50 feet by 75 feet. If the price of such land is $3.00 a square foot, how much does the lot cost?

$s = \frac{1}{2}(100+50+75) = 112.5$

$A = \sqrt{112.5(112.5-100)(112.5-50)(112.5-75)}$

$A \approx 1815.46$ sq. feet

$(1815.46)(\$3.00) \approx \$5,446.38$

# Algebra And Trigonometry Functions Applications Answers

Kathleen Armour

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