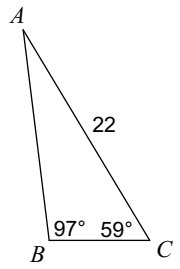
Math-3A Name_____ ID: 1

SM3-A HW #10-3 (Review)

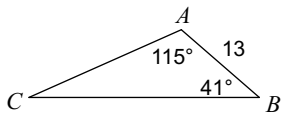
Date_____ Period____

Find each measurement indicated. Round your answers to the nearest tenth.

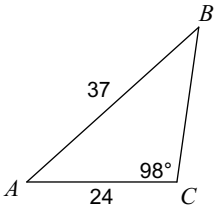
1) Find AB



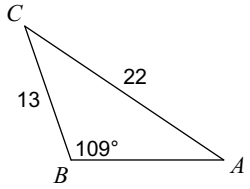
2) Find AC



3) Find $m\angle B$



4) Find $m\angle A$



Solve each triangle (Find the measures of all missing angles and all missing sides). Round your answers to the nearest tenth. Remember that side length 'a' is opposite of angle A, etc.

5) $m\angle C = 87°$, $b = 6$, $c = 9$

6) $m\angle B = 111°$, $m\angle A = 39°$, $a = 29$

7) $m\angle C = 85°$, $b = 29$, $c = 11$

8) $m\angle B = 26°$, $b = 16$, $a = 7$

Solve each equation by factoring.

9) $4p^2 + 9p - 28 = 0$

Solve each equation. Remember to check for extraneous solutions.

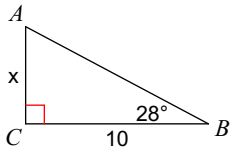
10) $\frac{1}{2} - \frac{1}{4n^2} = \frac{1}{4n}$

Solve each equation.

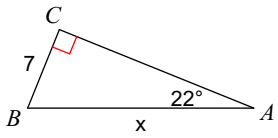
11) $\log_2 (x^2 - 2) + \log_2 9 = \log_2 31$

Find the measure of each side indicated. Round to the nearest tenth.

12)

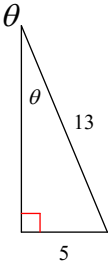


13)

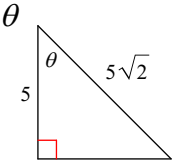


Find the value of the trig function indicated.

14) csc θ



15) csc θ



Convert each degree measure into radians.

16) -315°

Convert each radian measure into degrees.

17) $\frac{11\pi}{6}$

State the number of possible triangles that can be formed using the given measurements.

18) $m\angle A = 138°$, $c = 5$ in, $a = 24$ in

19) $m\angle C = 46°$, $b = 30$ ft, $c = 25$ ft

20) $m\angle C = 130°$, $b = 31$ in, $c = 10$ in

21) $m\angle B = 62°$, $a = 35$ m, $b = 34$ m

Find each measurement indicated. Round your answers to the nearest tenth. Hint: Draw the picture. If you have the ambiguous case, you must determine how many triangles are possble. For two triangles the angle will have two different measures.

22) $m\angle A = 69°$, $c = 26$ cm, $a = 12$ cm
Find $m\angle C$

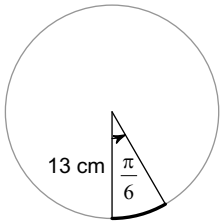
23) $m\angle A = 129°$, $c = 34$ in, $a = 45$ in
Find $m\angle C$

24) $m\angle C = 44°$, $b = 31$ m, $c = 30$ m
Find $m\angle A$

25) $m\angle A = 72°$, $c = 23$ mi, $a = 19$ mi
Find $m\angle B$

Find the length of each arc.

26)



Find the area of each sector.

27)