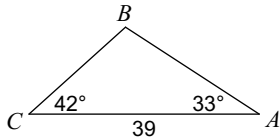
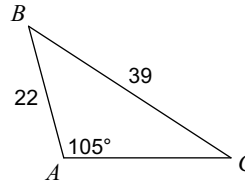


SM3-A HW #10-8 (REVIEW)

Date _____ Period _____

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

1) Find BC

2) Find $m\angle C$ 

3) \$4000 was placed into an account that pays 3.5% annual interest compounded continuously;

a) How many years (to the nearest 1/10) will it take for the money in the account to double?

b) How much money will be in the account after 10 years?

4) Solve:

$$2r^2 - r - 15 = 0$$

5) Solve:

$$\frac{1}{n} = \frac{5n + 10}{n} - \frac{2}{n^2}$$

6) Solve:

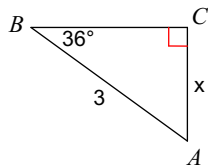
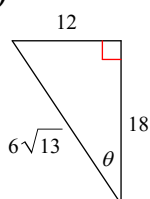
$$\log_4 x - \log_4 (x - 1) = 2$$

7) Solve. Round to the 4th decimal place.

$$15^{n+1} + 9 = 37$$

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

8)

**Find the value of the trig function indicated.**9) $\sec \theta$ 

10) Convert to radians:

$$195^\circ$$

11) Convert to degrees:

$$-\frac{11\pi}{18}$$

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

12) $m\angle A = 17^\circ$, $c = 34$ m, $a = 30$ m

13) $m\angle C = 53^\circ$, $b = 18$ yd, $c = 9$ yd

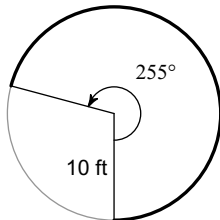
Find each measurement indicated. Round your answers to the nearest tenth. Hint: Draw the picture. If you have the ambiguous case, you must determine how many triangles are possible. For two triangles the angle will have two different measures.

14) $m\angle A = 74^\circ$, $c = 34$ mi, $a = 33$ mi
Find $m\angle B$

15) $m\angle B = 31^\circ$, $a = 27$ mi, $b = 7$ mi
Find $m\angle C$

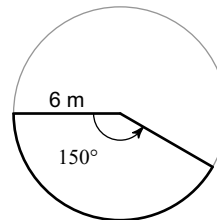
Find the length of each arc.

16)



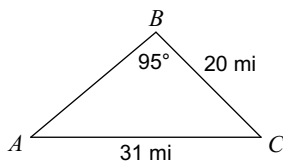
Find the area of each sector.

17)

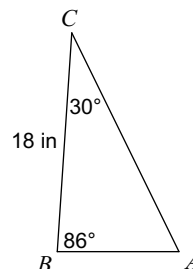


Find each measurement indicated. Round your answers to the nearest tenth.

18) Find $m\angle A$

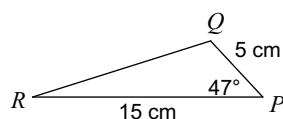


19) Find AB



Find the area of each triangle to the nearest tenth.

20)



21)

