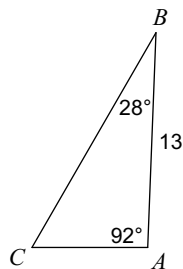


## SM3-A HW #10-1 (law of sines)

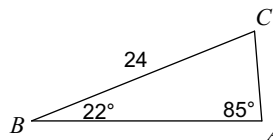
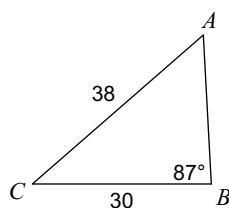
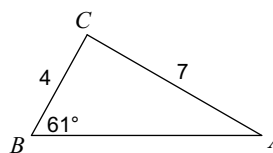
Date \_\_\_\_\_ Period \_\_\_\_\_

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

1) Find AC



2) Find AC

3) Find  $m\angle A$ 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)  $m\angle C = 63^\circ$ ,  $b = 22$ ,  $c = 26$

6)  $m\angle B = 123^\circ$ ,  $a = 7$ ,  $b = 15$

7)  $m\angle A = 23^\circ$ ,  $m\angle B = 36^\circ$ ,  $a = 16$

8)  $m\angle B = 22^\circ$ ,  $m\angle C = 24^\circ$ ,  $b = 12$

- 9) \$2250 was placed into an account that pays 2.5% annual interest compounded continuously;  
 a) How many years (to the nearest 1/10) will it take for the money in the account to triple?  
 b) How much money will be in the account after 15 years?

**Solve each equation by factoring.**

10)  $2a^2 - 13a - 24 = 0$

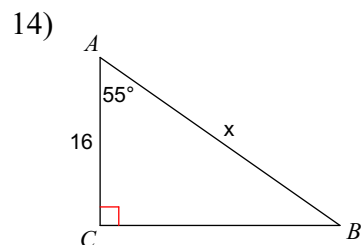
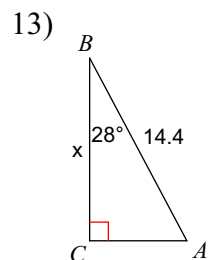
**Solve each equation. Remember to check for extraneous solutions.**

11)  $\frac{x^2 + 7x + 6}{x^2} - \frac{3}{2x^2} = \frac{x - 2}{x}$

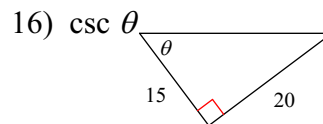
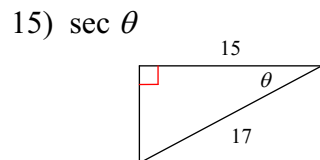
**Solve each equation.**

12)  $\log_3 8 + \log_3 2x^2 = 4$

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



**Find the value of the trig function indicated.**



**Convert each degree measure into radians.**

17)  $320^\circ$

**Convert each radian measure into degrees.**

18)  $-\frac{3\pi}{4}$