Corrective Assignment

NAME:_____

DATE:_____

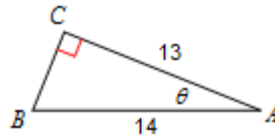| **Find the value of the trig functions indicated.**		
1. $\tan\theta$	2. $\cos\theta$	3. $\sin\theta$
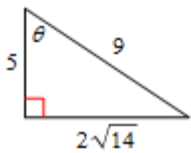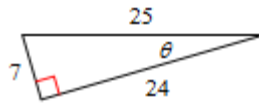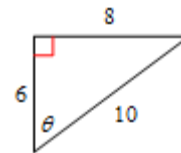
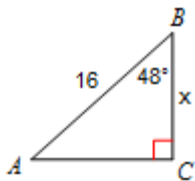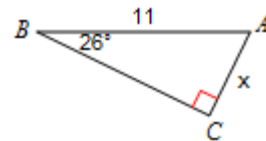| **Find the measure of the indicated angle. Round to the nearest hundredth.**		
4.	5.	6. Given $\triangle ABC$ where $\angle C$ is a right angle. Find $m\angle A$ if $a = 7$ and $c = 12$. (Draw a picture!)
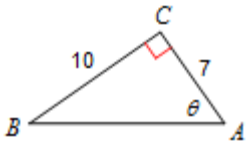
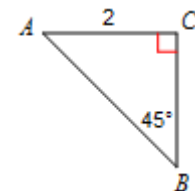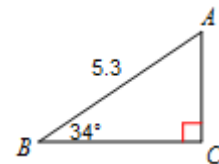| **Find the measure of the indicated side. Round to the nearest hundredth.**		
7.	8.	9. Given $\triangle ABC$ where $\angle C$ is a right angle. Find b if $m\angle B = 64°$ and $c = 9$. (Draw a picture!)

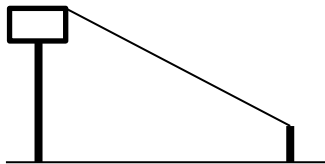| **Solve each triangle. Round to the nearest hundredth.**		
10.	11.	12. Given $\triangle ABC$ where $\angle C$ is a right angle where $m\angle A = 67°$ and $b = 12$. (Draw a picture!)

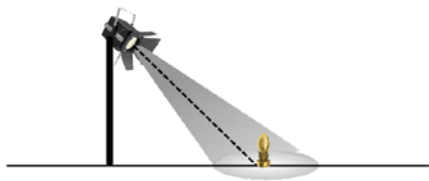**Label the picture given and then solve it. If no picture is given, draw your own and solve!**

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13. One end of a zip-line is attached to a platform on top of a 150 foot pole. The other end of the zip-line is attached to the top of a 5 foot stake. The angle of elevation from the top of the stake to the top of the platform is 23°. How long is the zip-line?	14. Standing on top of a 235 foot tall building, you spot your friend on the ground who is 94 feet away from the building. What is the angle of depression you had to look to spot your friend?
15. Mr. Brust displays his fantasy football trophy in his front yard with a spotlight illuminating the trophy 24/7. The spotlight is mounted on a 8.5 meter pole. The angle of depression formed by the spot light is 54°. How far the does the spotlight shine?	16. Driving on a flat road, you spot a mountain 28 miles away. The angle of elevation from the car to the top of the mountain is 34°. How tall is the mountain?
17. A 25 foot ladder leans against a building. The ladder's base is 13.5 feet from the building. Find the angle which the ladder makes with the ground.	18. A 4 foot boy flying a kite lets out 300 feet of string which makes an angle of elevation of 38°. Assuming that the string is straight, how high above the ground is the kite?
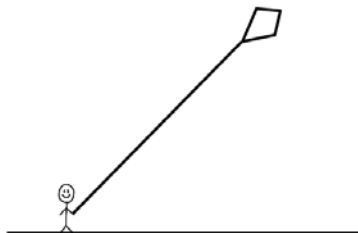
ANSWERS TO 8.4 CORRECTIVE ASSIGNMENT

1. $\frac{2\sqrt{14}}{5}$	2. $\frac{24}{25}$	3. $\frac{4}{5}$	4. 55°	5. 21.8°	6. 35.7°
7. 10.7	8. 4.8	9. 8.1	10. $m\angle A = 45°$ $a = 2$ $c = 2.8$	11. $m\angle A = 56°$ $a = 4.4$ $b = 3$	12. $m\angle B = 23°$ $a = 28.3$ $b = 30.7$
13. 371.1 ft	14. 68.2°	15. 10.5 m	16. 18.9 mi	17. 57.3°	18. 188.7 ft