UCONN Physics Math ReviewNamePractice Quiz A,B,C,DPerior		Name: Period: _	Da	nte:
1. S	tate the number of significant digits in each measurement.			
a)	0.003068 m b) 75.00 m c) 5.029 m	d) 75	50 m _	
2. S not	olve the following problems and report answers with appropriate number o ation.	f significa	int digits, i	using scientific
1)	6.201 cm + 7.4 cm + 0.68 cm +12.0 cm =			
4)	10.4168 m - 6.0 m =			
5)	12.00 m + 15.001 kg=			
6)	1.31 cm x 2.3 cm =			
8)	20.2 cm / 7.41 s =			
3)	$(4.11 \times 10^{-6}) (7.51 \times 10^{-4}) =$			
4)	$8.45 \times 10^7 / 6.74 \times 10^3 =$			
3. I	Jse Dimensional Analysis to solve the following - SHOW YOUR WORK! BE NE	AT!		
1.	87 yds =			cm
2.	1kg =			ounces
3.	66 gal =			Liter
4.	87 mm =			cm
5.	56 m =			ft
6.	78 Kg =			slugs

4. In the questions below, draw and solve each question.

1) A lift chair at a ski resort has an angle of elevation of 31<sup>0</sup> and covers a total distance of 3575 feet. What is the vertical distance covered by the lift chair? **DRAW A PICTURE!** 

2) You are preparing to land an airplane. Your straight line approach has an angle of depression of 5<sup>0</sup>. What is the straight line distance to the runway when the plane is at an altitude of 1000 feet? **DRAW A PICTURE!** 

5. Solve each of the triangles below using the law of cosines and/or law of sines.

