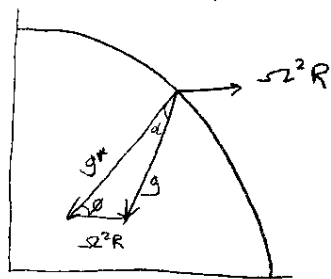


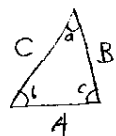
Hints to Homework

Set up problem like this -----

1.1)



+ You will need to use Law of Sines:


$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

* Also consider: what is $\sin \alpha$ if $\alpha \rightarrow 0$?

1.2) Hint: In this case, the centrifugal force must balance the gravitational force.

1.5) This one should be relatively easy; check out the ballistic missile example on page 18 of Hutton.

1.6) This one should also be easy; check out the ballistic missile example, again.