The Turn of the Century was built in honor of Lagoon's 100th birthday in 1987 (see lagoonpark.com). It is rated as extreme on the spinning scale so it’s not for the weak of stomach!

So go take a look and ride if you can handle it. Then answer the questions below.

a.) As the ride speeds up, you and your chair begin to move outward: why?

b.) What forces act on you as the ride spins? In which Direction?

c.) Does the angle change for riders with different masses?

d.) Create a Force Vector Diagram of the forces acting on you as you swing on this ride.

e.) Given that all of the swings are pulled outward at approximately 40 degrees, what is the tension acting on the rope (see diagram)?