# Foucault Pendulum Worksheet Answers

1. ***Before using the experimental setup:* What do you think the motion of an object viewed from a rotating platform will look like?**

**If the object is not moving, it will be a circle; otherwise, it will be a more complex shape such as spirals.**

1. ***Now using the experimental setup:* What do you think the motion of the pendulum bob will look like when the platform that the camera is mounted on is not rotating? Describe and illustrate your response.**

**The motion of the pendulum projected on a piece of paper lying on the floor is a straight line.**

1. ***Now that the platform is rotating:* What do you think the motion will look like? Illustrate your response below by a graph. Also if the speed was increased, what would you observe?**

**The motion of the pendulum projected on a piece of paper lying on the floor is a succession of spirals with a common center of the pendulum stationary point (as shown to the right 🡺).**

**When the platform speed is decreased, the number of spirals increases, and vice versa.**