**Activity 6.3.1A Part 1 Investigating Spaghetti Curves**

**What You Need:**

Two Sided Tape

Box of Spaghetti

To measure the fly’s height, you will position the spaghetti at a right angle to the “ground” (the *x*-axis). One end of the Spaghetti will touch the ground. Place a piece of uncooked spaghetti at a right angle to the ground at $ \frac{π }{6} $radians in the unit circle. Next, break the piece of spaghetti at the height where it touches the point on the unit circle.

Next, transfer the spaghetti piece to the coordinate plane on the right, with horizontal translation corresponding to distance around the unit circle. Tape the transferred spaghetti to the grid. **Note:** Since the spaghetti is above the ground in the unit circle, the corresponding piece of spaghetti should also be above the ground.

Continue transferring lengths around the Unit Circle to the coordinate plane.

