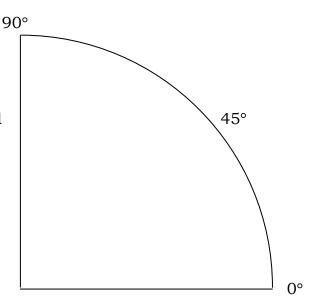
Connection: Sine Values and Electromagnetic Wave Forms

Dr. Stan Hartzler Archer City High School

- 1. Draw a quarter-circle on a large sheer of paper, with radius one meter.
- 2. Mark angles 0°-90°.
- 3. Make a chart of angle measures 0°-90°.
- 4. Measure vertical distance from each angle mark to horizontal segment. Record in chart as meters.
- 5. Graph as shown below table.
- 6. Note the shape. Show copies and extensions.



Angle	1°	2°	•••	30°	31°	•••	53°	54°	55°	•••
Distance	.017	.349	•••	.500	.515	•••	.799	.809	.819	• • •



This shape is the shape of light waves, radio waves, x-rays, TV waves, etc.

Why? That question has attracted the attention of philosophers.

Let students experience that question.