

MathFLIX CHALLENGE

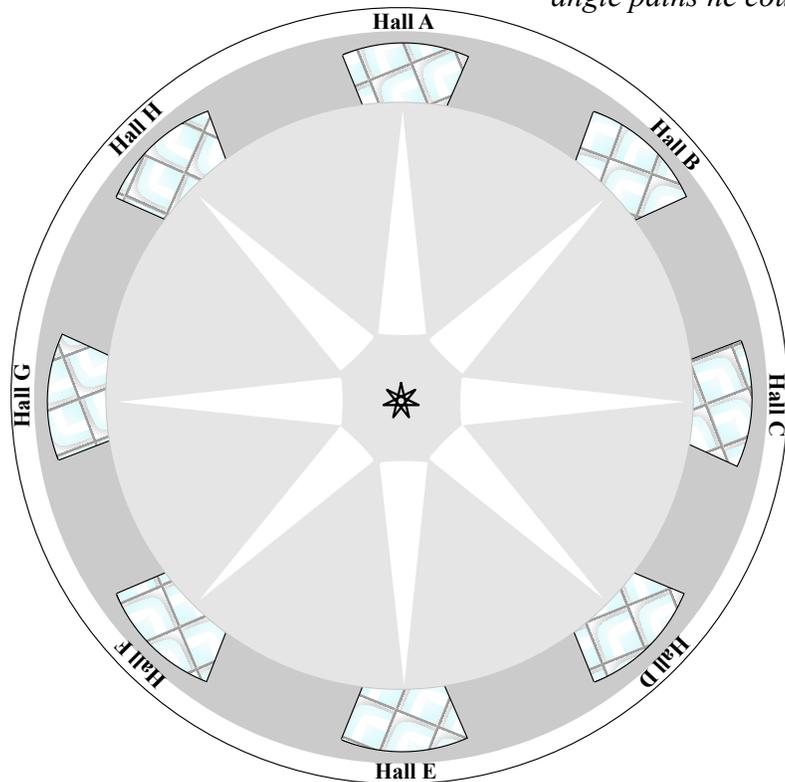
Geometry Exploration

Angle exploration inspired by Sir Cumference and the Great Knight of Angleland

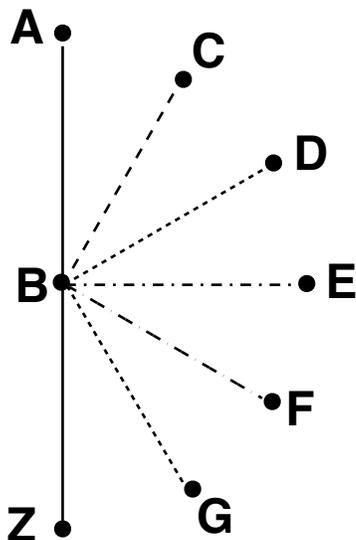
by Cindy Neuschwander

In the book, Radius, son of Sir Cumference and Lady Di of Ameter, sets out on an adventure to earn his knighthood. He travels through the village of steep angled rooftops and over the Mountains of Obtuse in search of King Lell. Using a treasured family heirloom, Radius discovers his success is measured in angles.

A castle Radius explored had hallways similar to those illustrated here. Use the table below to list the different angle paths he could take to visit all the halls.



Right angles	Acute angles	Obtuse angles	Straight angles
$\angle A * C$	$\angle A * B$	$\angle A * D$	$\angle A * E$
	$\angle B * D$	$\angle B * E$	



Study the figure to complete the table.

Degree of Angle	Notation of Angle	Type of Angle
30°	$\angle ABC$	
60°	\angle	acute
90°	\angle	
	$\angle ABF$	
150°	\angle	
	$\angle ABZ$	