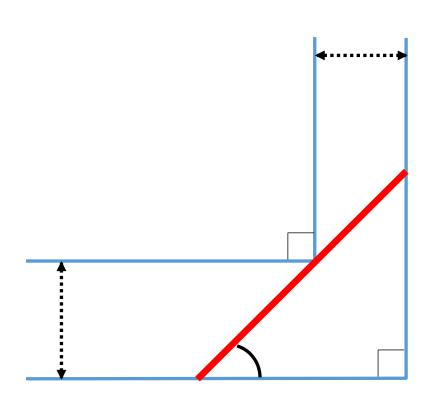
- Create a Python program called ladder_problem.py that uses SciPy to calculate and display the maximum ladder length possible that will fit around the corner depicted on the next slide
- Additionally, using pyplot, graph the function describing the maximal ladder length as a function of (see following diagram)
- Finally, plot the point where this function has a zero rate of change
- Upload your solution to the BNL QIS101 SharePoint site



What is the maximum length straight ladder than can fit around this corner?

Note: the ladder must maintain a constant length

- Create a Python program called archimedes_spiral.py that uses SciPy to calculate and display the arc length of an Archimedes Spiral with as it rotates from
- Using pyplot, graph that entire spiral
- Upload your solution to the BNL QIS101 SharePoint site

 Create a Python program called eulers_constant.py that uses SciPy to numerically estimate Euler's Constant:

- Then use pyplot to superimpose a line graph of on top of a step plot of the first 50 Harmonic Numbers
- Upload your solution to the BNL QIS101 SharePoint site