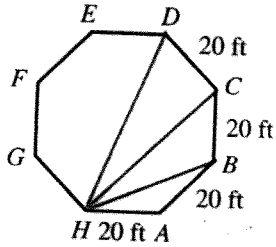


Pre-Calc.

Name \_\_\_\_\_

Extra Credit

1. Building inspector Julie Wang checks a building in the shape of a regular octagon, each side 20ft. long. She checks that the contractor has located the corners of the foundation correctly by measuring several of the diagonals. Calculate what the lengths of the three diagonals shown should be.



2.  $\angle CAB$  is inscribed in a rectangular box whose sides are 1, 2, and 3 ft. long as shown. Find the measure of  $\angle CAB$ .

