

Looking for Pythagoras Homework #1.1

Name _____ Period _____ Date _____

ACE _____

Use the map of the City of Euclid (page 8) to answer problems 1 and 2.

1. Give three paths from the police station to the gas station by car. Identify the coordinates of each turn as well as the coordinates of the police station and the gas station.

Path 1

Total distance traveled for Path 1 _____

Path 2

Total distance traveled for Path 2 _____

Path 3

Total distance traveled for Path 3 _____

2. The greenhouse delivery truck must make stops at the hospital, the cemetery, the art museum, and a house located at $(-2,-2)$, then return to the greenhouse. The stops may be made in any order. Give three possible routes. Identify the coordinates of each turn as well as the coordinates of each stop.

Route 1

Total distance traveled for Route 1 _____

Route 2

Total distance traveled for Route 2 _____

Route 3

Total distance traveled for Route 3 _____

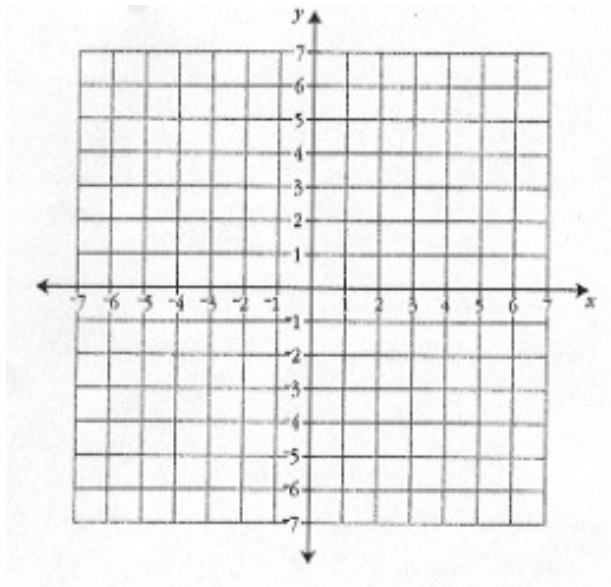
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3. On the grid below plot the points named by each coordinate pair. Be sure to label them with the appropriate letter.

A (2,5) B (-6, 7) C (0,2) D (-3,-4) E (-5, 0) F (-5, 0) G (5, -5)



4. Find the length of the segment that starts at E and ends at A.

Find the length of the segment that starts at A and ends at C.

Find the length of the segment that starts at C and ends at E.

Is triangle ACE a right triangle?

