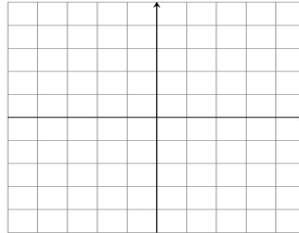


Taxicab Geometry Worksheets

Exploring Mathematics, Spring 2010

Day 1: Taxicab Distances

1. (a) Graph the points $A = (1, 3)$, $B = (1, -2)$, $C = (-3, -1)$, and $D = (0, 3)$.



- (b) Now find the following distances in both Euclidean and taxicab geometries. Give a decimal approximation to 2 decimal places.

	Euclidean distance	Taxicab distance
from A to B		
from B to C		
from C to D		

- (c) If you know the Euclidean distance between two points, does that tell you what the taxicab distance is? Why or why not?
- (d) If you know the taxicab distance between two points, does that tell you what the Euclidean distance is? Why or why not?