

Coordinates

Corresponding Material

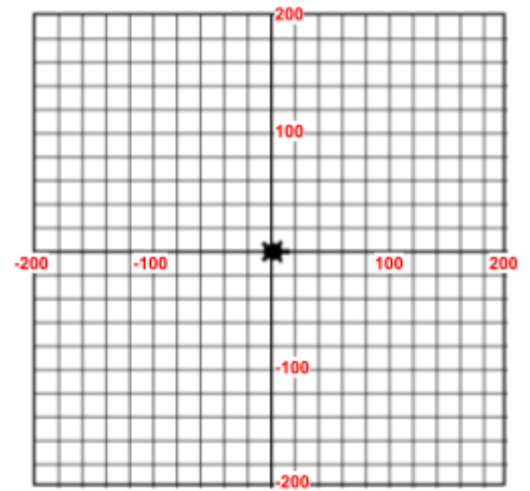
Tracy Adventures 1, Lesson 1: Intro to Tracy's Grid World

Discussion

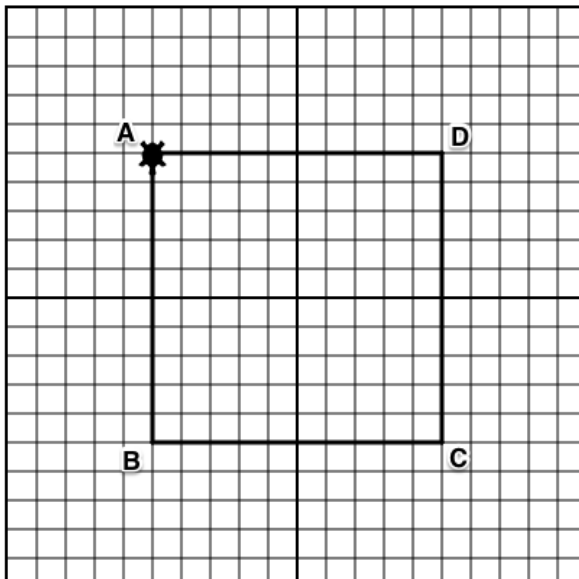
Tracy lives in a grid world that is 400 pixels wide by 400 pixels tall. Tracy always starts at the center of the canvas, at point $(0,0)$. In order to move Tracy around her world, we're going to need to understand coordinates and how our x- and y-values change as we move to different areas of the canvas.

Class Exercise

To the right, you'll find a representation of Tracy's grid world. Each line represents a distance of 20 pixels. Below, you'll find the same representation of Tracy's grid world along with a few images that Tracy has drawn. For each point on the shapes, determine the x- and y-coordinate point and record this in the spaces provided.



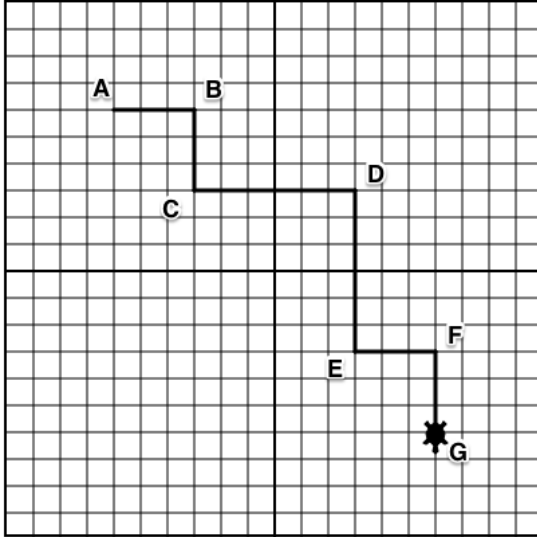
a.



Coordinates
Coordinate for point A:
Coordinate for point B:
Coordinate for point C:
Coordinate for point D:

If Tracy started at point A, write the commands that would draw the output as shown:

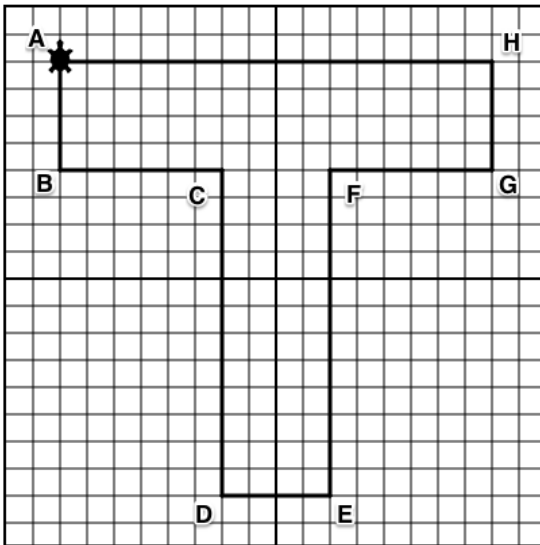
b.



Coordinates
Coordinate for point A:
Coordinate for point B:
Coordinate for point C:
Coordinate for point D:
Coordinate for point E:
Coordinate for point F:
Coordinate for point G:

If Tracy started at point A, write the commands that would draw the output as shown:

c.



Coordinates
Coordinate for point A:
Coordinate for point B:
Coordinate for point C:
Coordinate for point D:
Coordinate for point E:
Coordinate for point F:
Coordinate for point G:
Coordinate for point H:

If Tracy started at point A, write the commands that would draw the output as shown: