In Function Baseball, after hitting the ball, a Particle Player starts running from home plate and continues running at a constant speed around a baseball diamond until it reaches home plate again. Other information: the diamond is a square that is 90 units on each side, and particles never leave the base line and are able to turn the sharp corners at each base without losing speed.



Sketch a rough graph of a function that gives the Particle Player’s distance from home plate as it relates to the time since the ball was hit. Be sure to label your axes in order to communicate your graph clearly to the reader.

Describe key features of your graph and how they relate to the situation.