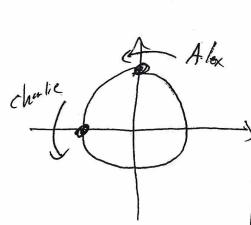
Name:

Answer the questions in the spaces provided. Don't hesitate to ask me or your peers for help, this is not a quiz.

1. Charlie and Alexandria are running around a circular track with a radius of 60 meters. Charlie started at the westernmost point of the track, and at the same time, Alexandra started at the northernmost point. They both run counterclockwise, Alexandra at 3 meters per second. She takes exactly 2 minutes to catch up to charlie.

Impose a coordinate system with units in meters where the origin is the center of the track, and give the x and y coordinates of Charlie after 1 minute of running.



ter 1 minute of running.

AlexS Coord

$$R=60$$
 $Q=7/2$
 $Q=7-2$
 $Q=7-2$

 $O_{A}(f) = \frac{1}{20} f + \frac{\pi}{2}$ $O_{C}(f) = O_{B}(f + T)$ $O_{C}(f) = O_{C}(f + T)$ $O_{C}(f + T) = O_{C}(f + T)$ $O_{C}(f$

6-7 - 1200

 $S_{\mu}(H) = COSin\left(\frac{1}{20}t + \frac{\pi}{2}\right)$ Charlies Courds R = 60 $Cosin(\frac{1}{20}t + \frac{\pi}{2})$ Charlies Courds Ch