

- [illegible]

- | 5-liter | 9-liter |
|---------|---------|
| 0 | 0 |
| 5 | 0 |

5. On the pool table shown below, a pool ball must be shot initially from the point $(0, 0)$ and must roll along the side to either $(0, 3)$ or $(5, 0)$. Each time the ball strikes another side, it will bounce off at an angle of 60° as indicated by the dotted lines. First, start at $(0, 0)$, and shoot the ball towards $(5, 0)$, and record the coordinates each time the ball strikes a side. Then start at $(0, 0)$, shoot the ball towards $(0, 3)$, and record the coordinates again. Can you relate your results to the previous problem?

