1. Points A and B lie on the same side of a given line as shown below. You are required to do the following tasks:
   (a) Let x be your class number. Compute \( y = 3.3 + 0.1x \).
   (b) Mark the point P on the given line with a distance \( y \) cm. from the leftmost end-point.
   (c) Join AP and PB with a ruler.
   (d) Measure AP and PB in centimeter.
   (e) Add the two length together.

2. Find the shortest path of AP+PB in question 1. Justify your answer with a formal proof.
3. Show the following famous theorem on ellipse.