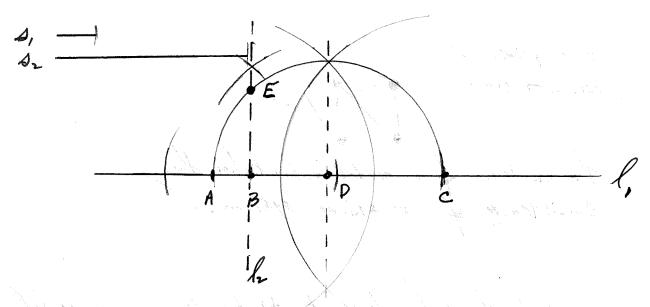
1. (5 points) Show how to use a compass and straight edge to construct a segment of length $\sqrt{5}$. Segments of lengths 1 cm and 5 cm are provided for your convenience. Describe the sequence of steps you follow in constructing your segment of length $\sqrt{5}$. Finally use your centimeter ruler to approximate $\sqrt{5}$ to one decimal place.



Construct any line l, Choose any point A on le Construct on l, $\overline{AB} \cong A$, Construct on l, $\overline{BC} \cong Az$ Construct the midpoint D of \overline{AC} Construct a semi-circle with diameter \overline{AC} Construct Az + A, Af B. Construct intersection of Az and the semi-circle, call it E. \overline{BE} has length \overline{VB} (em).

By measurement V5 = 2.3