BECA / Dr. Huson / Geometry 02-Midpoint+distance   Name:
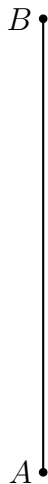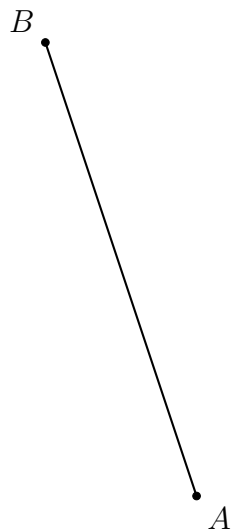pset ID: 30

2-8DN-Constructions

1. Complete the construction of an equilateral triangle with one side as $\overline{AB}$.

B •

A •

(a) Identify two circles in the construction. For each, name the center of the circle and the radius.

(b) Assuming that the third vertex of the triangle is point C, explain why the distance from A to C is the same as the distance from A to B.

2. Complete the construction of a perpendicular bisector of $\overline{AB}$. Label the midpoint M.

B

A

Early finishers

3. Solve for x by factoring

   (a) $x^2 + 6x + 5 = 0$

   (b) $x^2 + 5x = 14$