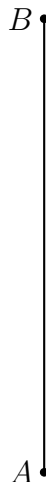


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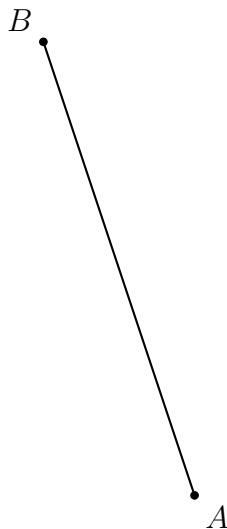
**2.8 Do Now: Constructions**

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



- (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  $M$ .



**Early finishers**

3. Solve for  $x$  by factoring

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

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