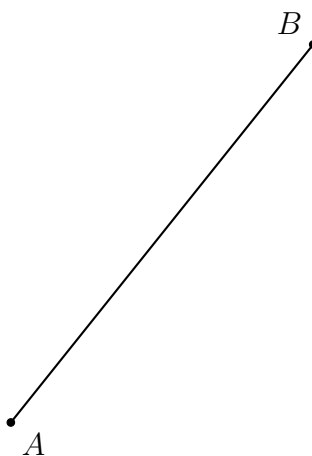


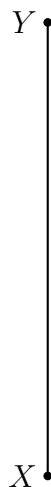
**7-9CW-Constructions**

1. Complete the construction of a perpendicular bisector of  $\overline{AB}$ . Label the midpoint  $M$ .  
Show all construction marks, but make no extra lines.



2. Accurately draw a square that is 5 centimeters on each side.

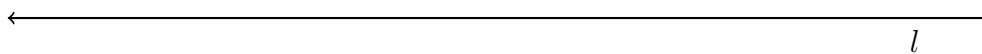
3. Complete the construction of an equilateral triangle with one side as  $\overline{XY}$ . Show all construction marks, but make no extra lines.



- (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  $Z$ , explain why the distance from  $X$  to  $Z$  is the same as the distance from  $X$  to  $Y$ .

4. Complete the construction of a line perpendicular to line  $l$  through the point  $P$ . Show all construction marks, but make no extra lines.

$P$  •



5. The perimeter of a square is 52 cm. Find the area of the square.