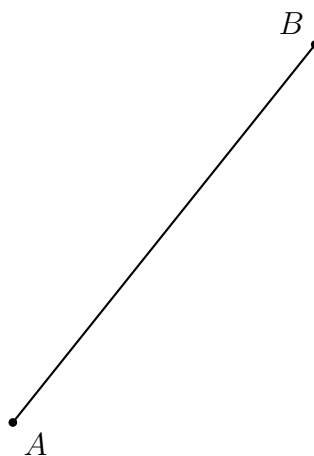


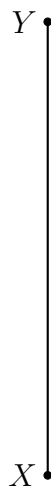
7.9 Classwork: Constructions

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.

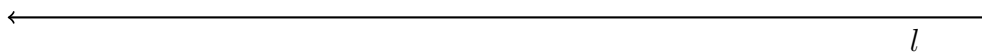
3. Complete the construction of an equilateral triangle with one side as \overline{XY} . Show all construction marks, but make no extra lines.



- (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.