1.6 Do Now: Angle Pairs

1. Complete the construction of an equilateral triangle with one side $\overline{RS}$. Fill in the blanks in the steps.

   (a) Given line segment $\overline{RS}$.

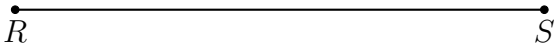
   (b) Construct a circle centered at point R with radius RS.

   (c) Construct a circle centered at point _____ with radius RS.

   (d) Label the intersection of circle R and S as the point T.

   (e) Draw the line segment $\overline{RT}$ and the line segment _____.

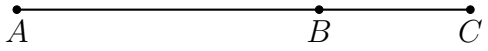
   (f) $\triangle RST$ is an equilateral triangle.



2. Points that are all located on the same plane are _____.

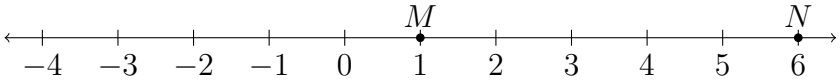
3. Given $\overline{ABC}$, $AB = 3.8$, and $BC = 1.7$.

   (a) Find AC.



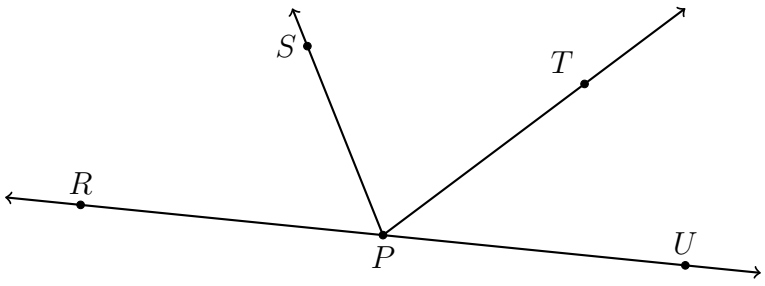
   (b) The postulate used in this problem is the _____.

4. Given $\overleftrightarrow{MN}$ as shown on the number line.



   What is the distance on the number line between the points M and N?

5. Given the situation in the diagram, answer each question. Circle True or False.



   (a) True or False: $\overrightarrow{PR}$ and $\overrightarrow{UP}$ are opposite rays.

   (b) True or False: $\angle TPU$ is an obtuse angle.

   (c) True or False: $\angle RPS$ and $\angle TPU$ are vertical angles.

   (d) True or False: $\angle RPT$ and $\angle TPU$ are adjacent angles.