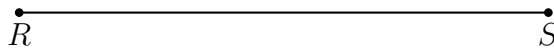


**1.6 Do Now: Angle Pairs**

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

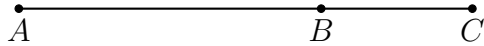
- (a) Given line segment  $\overline{RS}$ .
- (b) Construct a circle centered at point  $R$  with radius  $RS$ .
- (c) Construct a circle centered at point \_\_\_\_\_ with radius  $RS$ .
- (d) Label the intersection of circle  $R$  and  $S$  as the point  $T$ .
- (e) Draw the line segment  $\overline{RT}$  and the line segment \_\_\_\_\_.
- (f)  $\triangle RST$  is an equilateral triangle.



2. Points that are all located on the same plane are \_\_\_\_\_.

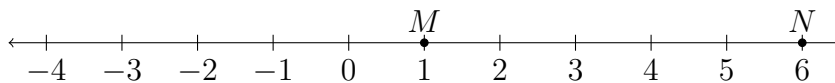
3. Given  $\overline{ABC}$ ,  $AB = 3.8$ , and  $BC = 1.7$ .

(a) Find  $AC$ .



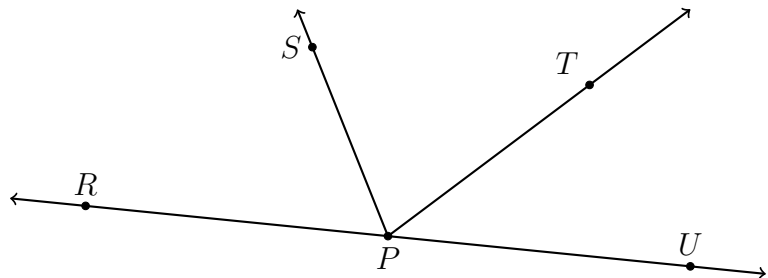
(b) The postulate used in this problem is the \_\_\_\_\_.

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.