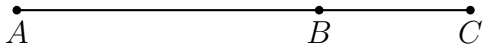
1.6 Homework: Angle Pairs

1. Points that are all located on the same line are _____.

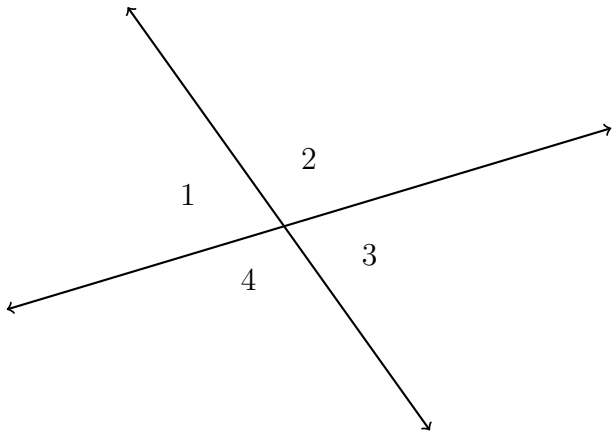
2. Given $\overline{ABC}$, $AB = 12$, and $AC = 19$.

   (a) Find BC.



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

3. As shown below, two lines intersect making four angles: $\angle 1$, $\angle 2$, $\angle 3$, and $\angle 4$.



   (a) Which angle is opposite $\angle 1$? _____

   (b) Name an angle that is adjacent to $\angle 4$. _____

   (c) True or false, $\angle 2$ and $\angle 4$ are vertical angles. _____

4. For each example, explain the error made drawing $\overrightarrow{JK}$.

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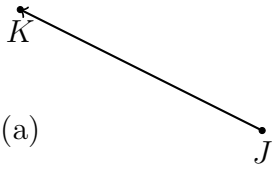
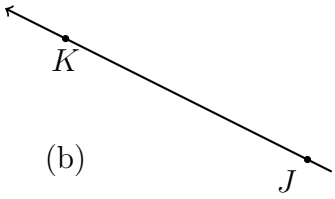
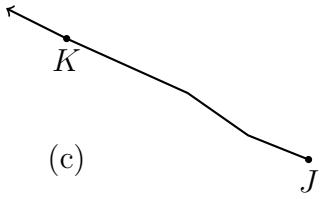


(a)

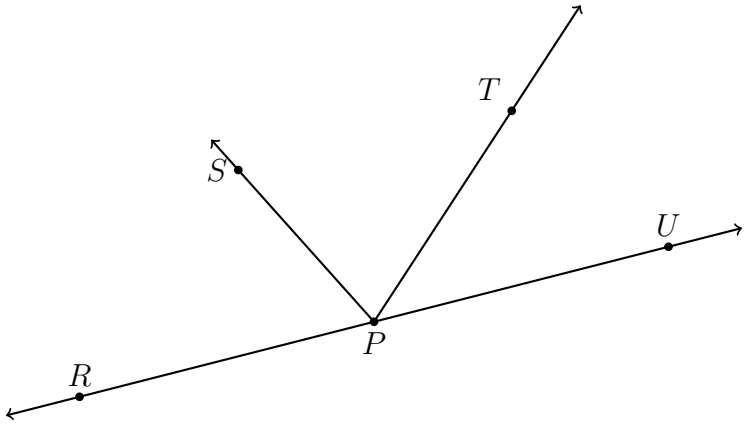


(b)



(c)

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



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

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

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

(d) True or False: $\angle RPS$ and $\angle SPT$ are adjacent angles.