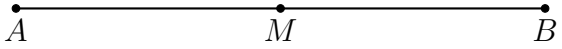
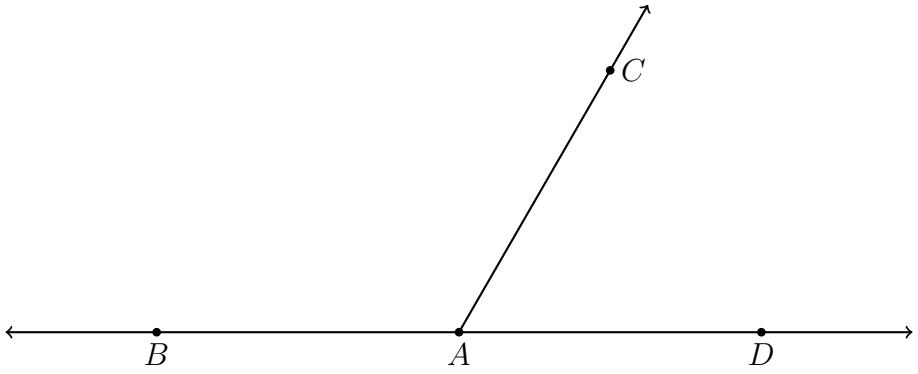
BECA / Dr. Huson / Geometry Name:
1-7 Angle measures

I can add the measures of angles

1. Do Now: Given M is the midpoint of $\overline{AB}$, $AM = 5x + 2$, $MB = 20$.
   (a) Mark the diagram with the values and tick marks
   (b) Write an equation and solve for x
   (c) Check your result



2. Given a straight line and a ray, making two angles.
   (a) Write down the names of the two angles using proper notation.
   (b) Using a protractor, measure the two angle in degrees.
   (c) Do they sum to 180°?



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

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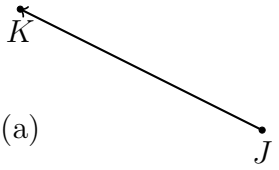
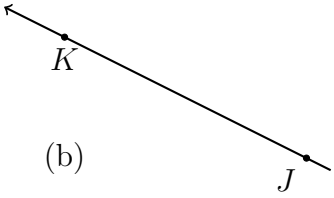
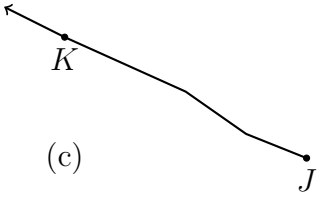


(a)

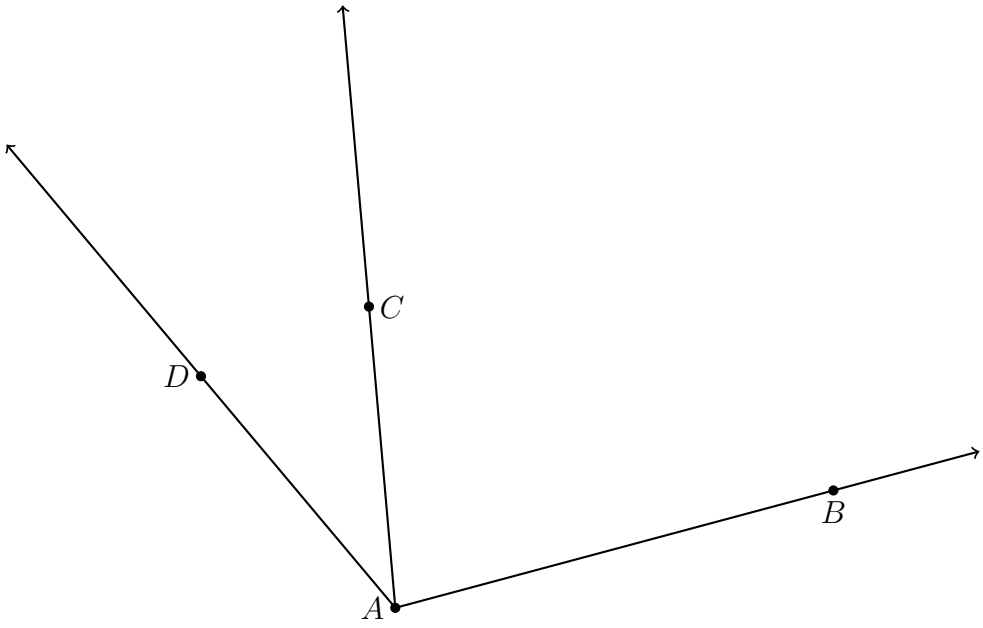


(b)

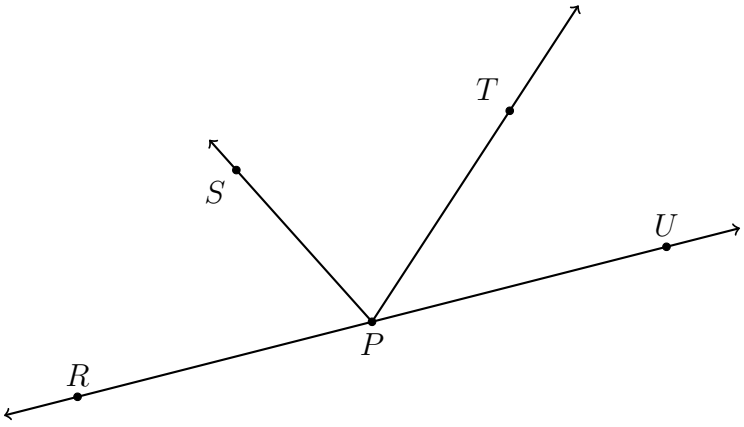


(c)

4. Write down the name of the *three* angles shown in the diagram below and their angle measures, using your protractor.



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 $\angle SPU$ are supplementary angles.

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