

Day 11 Homework

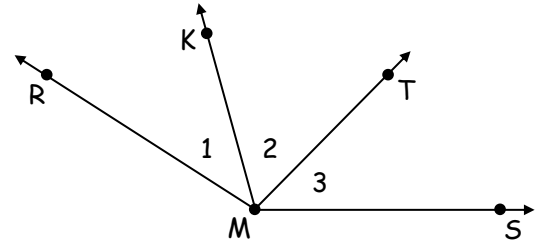
Use the diagram to answer the following:

1. Give two other possible names for each angle.

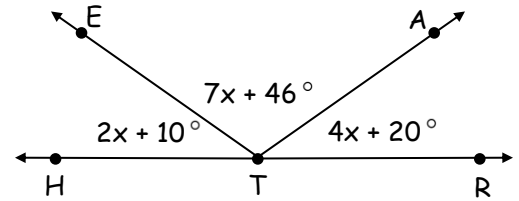
a) $\angle 1$ _____

b) $\angle 2$ _____

c) $\angle 3$ _____

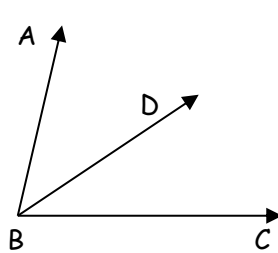


2. Solve for x.

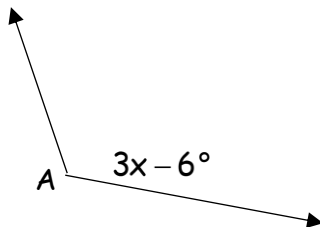


3. Given: \overrightarrow{BD} bisects $\angle ABC$
 $\angle ABD = 12x + 4^\circ$
 $\angle DBC = 15x - 11^\circ$

Find x and $m\angle ABC$



4. In the diagram below $\angle A$ is obtuse.

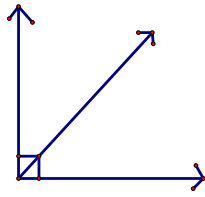


a) What are the restriction on $\angle A$?

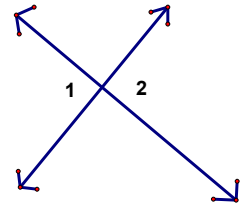
b) What is the possible range of values for x?

For 5 - 8: Given the diagram - circle all words that apply

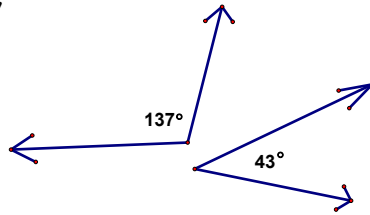
5. Complementary
Supplementary
Adjacent
Angle bisector
Vertical



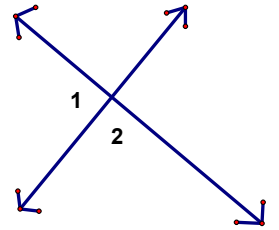
6. Complementary
Supplementary
Adjacent
Angle bisector
Vertical



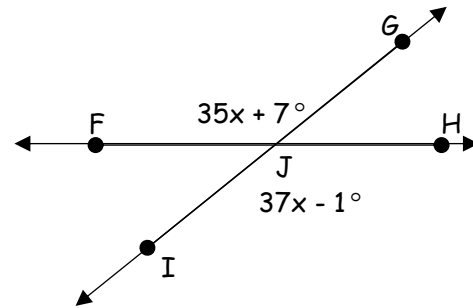
7. Complementary
Supplementary
Adjacent
Angle bisector
Vertical



8. Complementary
Supplementary
Adjacent
Angle bisector
Vertical



9. a. Solve for x.



- b. Find $m\angle GJH$