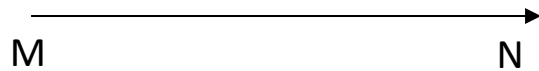
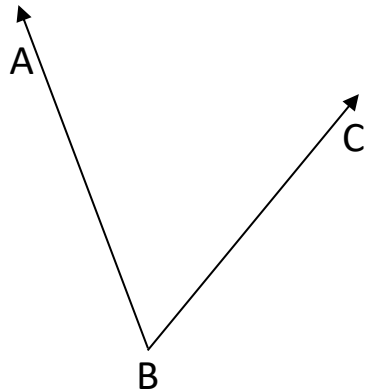


1. Follow the steps and answer the questions:

a. Copy $\angle ABC$ onto \overline{MN} . Label the new angle $\angle LMN$.



b. Bisect $\angle ABC$. Label the angle bisector \overline{BD} .

c. Bisect $\angle LMN$. Label the angle bisector \overline{MP} .

d. What is the relationship between $\angle ABC$ and $\angle LMN$? _____

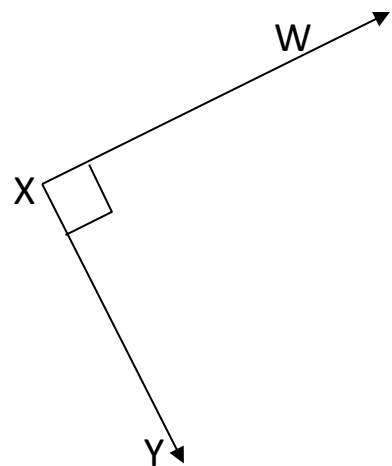
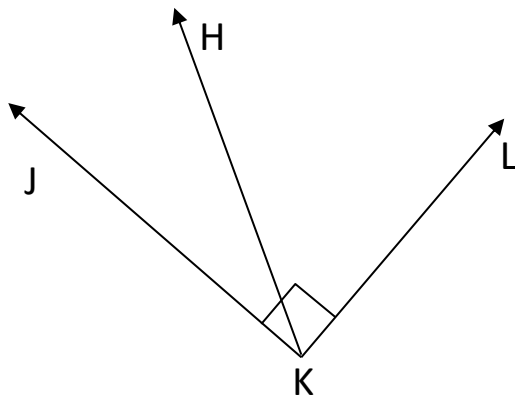
Why? _____

e. Measure the following: $m\angle ABC$ _____ $m\angle LMN$ _____ $m\angle DBC$ _____ $m\angle LMP$ _____

f. What do you predict is the relationship between $\angle ABD$ and $\angle PMN$? _____

Why? _____

2. Copy $\angle JKH$ to create $\angle WXZ$ such that \overline{XZ} is in the interior of $\angle WXY$.



a. What is the relationship between $\angle JKH$ and $\angle WXZ$? _____

Why? _____

b. What is the relationship between $\angle JKL$ and $\angle WXY$? _____

Why? _____

c. What do you predict is the relationship between $\angle HKL$ and $\angle ZXY$? _____

Why? _____