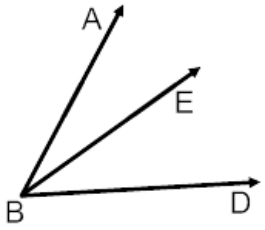
Name: _____ **Date:** _____
CC Geometry (H)

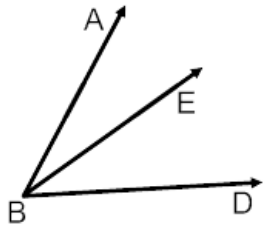
Angle Addition and Bisector Homework

Find the measure of the unknown angle.

1. If m∠ABE = 25° and m∠DBE = 45°, find m∠ABD.



2. If m∠ABD = 70°, m∠EBD = 40°, find m∠ABE.

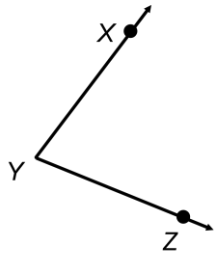


3. Name the given angle in three different ways:

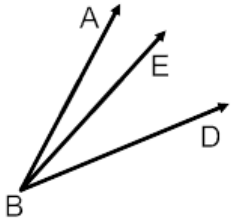
_____

_____

_____

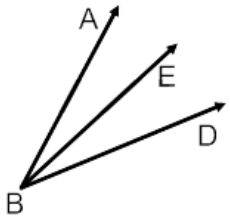


4. If m∠ABE = (2*x* - 5)°, m∠EBD = (*x* + 1)°, and m∠ABD = 50°, find the value of *x*.



5. $\overrightarrow{BD}$ bisects $\angle ABC$. If the m$\angle$DBC = 38, what is m$\angle ABD$?
(Hint: Draw!)

6. If $\overrightarrow{BE}$ bisects m$\angle$ABD, m$\angle$ABE = $(y - 8)°$ and m$\angle$EBD = $(5y - 100)°$, find the value of y.



7. Find the measure of each angle g.