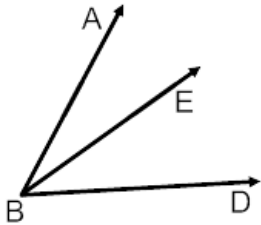


Name: \_\_\_\_\_  
CC Geometry Homework

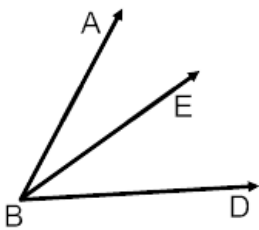
Date: \_\_\_\_\_

Find the measure of the unknown angle.

1. If  $m\angle ABE = 25^\circ$  and  $m\angle DBE = 45^\circ$ , find  $m\angle ABD$ .



2. If  $m\angle ABD = 70^\circ$ ,  $m\angle EBD = 40^\circ$ , find  $m\angle ABE$ .

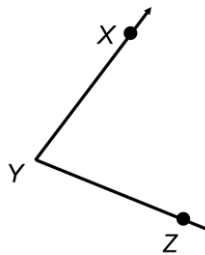


3. Name the given angle in three different ways:

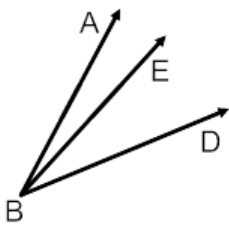
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4. If  $m\angle ABE = (2x - 5)^\circ$ ,  $m\angle EBD = (x + 1)^\circ$ , and  $m\angle ABD = 50^\circ$ , find the value of  $x$ .



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

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

