Name _____Date _____ Period_____

Chapter 2 Review

1. _____ Identify the contrapositive of the following statement.
If $x = 2$, then $x + 3 = 5$.

F If $x + 3 = 5$, then $x = 2$.
G If $x + 3 \neq 5$, then $x \neq 2$.
H If $x \neq 2$, then $x + 3 \neq 5$.
J $x = 2$ and $x + 3 = 5$.

2. _____ Identify the converse of the statement *If cats fly, then ducks bark*.

F If cats don't fly, then ducks don't bark.
G If ducks don't bark, then cats don't fly.
H If cats bark, then ducks fly.
J If ducks bark, then cats fly.

3. _____ Identify the hypothesis of the statement *If $x + 4 = 5$, then $x = 1$*.

A If $x = 1$, then $x + 4 = 5$.
B If $x + 4 \neq 5$, then $x \neq 1$.
C $x + 4 = 5$
D $x = 1$

4. _____ Make a conjecture given that M is the midpoint of $\overline{BC}$.

F $BM = BC$ **G** $BM = MC$ **H** $MC = BC$ **J** M bisects $\angle C$

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5. Write the statement *All dogs have four feet* in if-then form.

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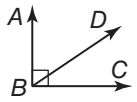
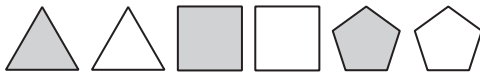
6. _____ If $m\angle ABD = 56$, find $m\angle DBC$.



7. _____ Make a conjecture about the next term in this sequence: 92, 87, 82, 77, 72.

A −5 **B** 62 **C** 67 **D** 77

8. _____ Make a conjecture about the next object in this sequence.



A 
B 
C 
D 

9. _____ Find the value of x.

F 25
G 35
H 55
J 125