NAME	CLASS	DATE	
	02,100		



Practice Masters Level A

12.3 A Closer Look at If-Then Statements

For each conditional in Exercises 1-3, explain why it is true or false. Then write the converse, inverse, and contrapositive, and explain why each is true or false.

Converse:	
Contrapositive:	
Conditional: For n	sumbers a , b , and c , if $a + c < b + c$, then $a < b$.
Converse:	
Inverse:	
Conditional: If 1 +	1 = 2, then elephants can fly.
Contrapositive: _	

- 4. When the car runs out of gas, it will stop. 5. All puppies are cute.
- 6. We'll go to the park if the weather is nice.

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4. All desserts are sweet. _

5. We'll play baseball if it doesn't rain. _

6. Numbers divisible by five end in either 5 or 0.

Practice Masters Level C

12.3 A Closer Look at If-Then Statements

For each conditional in Exercises 1–3, explain why it is true or false. Then write the converse, inverse, and contrapositive, and explain why each is true or false.

Converse:
Inverse:
Contrapositive:
Conditional: If $AX = XB$, then X is the midpoint of segment AB .
Converse:
Inverse:
Contrapositive:
Conditional: If a tail is a leg, then horses have 5 legs.
Converse:
Inverse:
Contrapositive: