

Geometry Practice on Law of Detachment and Law of Syllogism

Assume the following conditionals are true. A) What conclusion can you make, if any? B) Which law of logic are you using?

1. If I go to the movie, then I'll eat popcorn.
If I eat popcorn, then I'll enjoy the movie.
A. Conclusion? _____
B. Law of logic? _____
2. If a figure is a square, then it is a rectangle.
If a figure is a rectangle, then it has 4 right angles.
A. Conclusion? _____
B. Law of logic? _____
3. If I miss my bus, then I'll be late for school.
I miss my bus.
A. Conclusion? _____
B. Law of logic? _____
4. If this wind keeps up, then we will lose some trees.
We lose some trees.
A. Conclusion? _____
B. Law of logic? _____
5. All accountants enjoy mathematics.
People who enjoy mathematics are intelligent.
A. Conclusion? _____
B. Law of logic? _____
6. If a person is a librarian, then they read books.
If a person is a friend of Dana's, then they read books.
A. Conclusion? _____
B. Law of logic? _____
7. If an animal is a pig, then it is a mammal.
Leon is a pig.
A. Conclusion? _____
B. Law of logic? _____
8. If a quadrilateral is a square, then it has four congruent sides.
Quadrilateral ABCD has four congruent sides.
A. Conclusion? _____
B. Law of logic? _____
9. If my mother lets me go to a movie, then I will be happy.
My mom lets me go to a movie.
A. Conclusion? _____
B. Law of logic? _____
10. If a man is wealthy, then he buys a mansion.
If a man can buy a mansion, then he can hire a housekeeper.
A. Conclusion? _____
B. Law of logic? _____

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