What is the next term of the sequence?

1. $1, 3, 5, 8, 11, 15, 19, 24, \ldots$

2. $\frac{1}{2}, \frac{2}{6}, \frac{3}{18}, \frac{4}{54}, \ldots$

3. $-5, 5, -6, 6, -7, 7, -8, \ldots$

What is a counterexample for the following conjecture?

4. All states in the United States share a border with another state.

5. All vehicles on the highway have exactly four wheels.

Identify the hypotheses and conclusion of the given statement.

6. If pigs had wings, they could fly.

Hypotheses_____

Conclusion_____

7. If a movie is a comedy, then it is funny.

Hypotheses_____

Conclusion_____

Write the inverse, converse and contrapositive of the given conditional statement.

8. If you make an insurance claim, then your rates will go up.

Inverse_____

Converse_____

Contrapositive_____

9. If a person is a banjo player, then the person is a musician.

Inverse_____

Converse_____

Contrapositive_____