

Independent Practice: **CONDITIONAL STATEMENTS**

NAME: _____

DATE: _____

PERIOD: _____

For each conditional statement below, state the hypothesis and the conclusion.

1. Hypothesis: _____ If you are in Alaska, then you are cold.
Conclusion: _____

2. Hypothesis: _____ If the sun is shining, then it will not rain
Conclusion: _____

3. Hypothesis: _____ If $3x - 2 = 7$, then $x = 3$
Conclusion: _____

Rewrite the following statements as a conditional statement. Identify the hypothesis and the conclusion. State a counter example for the conditional statement.

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4. Conditional: _____ Go to law school and you will become a judge.

Hypothesis: _____

Conclusion: _____

5. Conditional: _____ $x^2 - 3 = 13$; $x = 4$

Hypothesis: _____

Conclusion: _____

6. Conditional:

For $a > 0$ and $b > 0$, $b - a > 0$

Hypothesis:

Conclusion:

For each conditional statement below, complete the algebraic proof.7. If $4x - 2 = 10$, then $x = 3$

1.	1. Given
2.	2. Addition property of equality
3. $x = 3$	3.

8. If $5x - 1 = 2x + 5$, then $x = 2$

1. $5x - 1 = 2x + 5$	1.
2.	2. Subtraction property of equality
3.	3.
4.	4. Addition property of equality
5.	5.
6.	6.
7.	7.

9. **Solve for x using an algebraic proof:** $3x + 1 = x - 8$

1.	1.
2.	2.
3.	3.
4.	4.
5.	5.
6.	6.
7.	7.