

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

1. If you go to AFHS, then you are a caveman.

Converse: _____

Inverse: _____

Contrapositive: _____

2. If you drink soda, then you will burp.

Converse: _____

Inverse: _____

Contrapositive: _____

3. If your car's oil isn't changed, then it will break down.

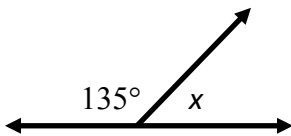
Converse: _____

Inverse: _____

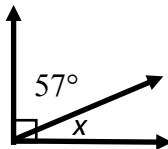
Contrapositive: _____

Solve for x .

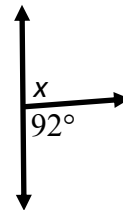
4.



5.

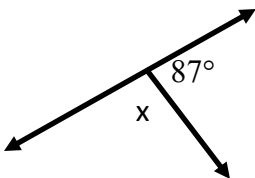


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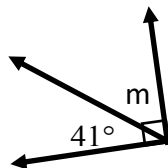


Solve for the missing angle. Justify your answer.

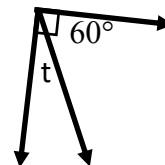
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8.

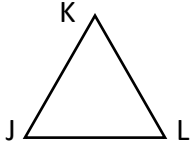


9.



State whether the statement is true or false. Explain why.

10. Polygon JKL is a triangle.



11. All parabolas are functions.

12. All equations have solutions.

13. All functions have a domain of $[0, \infty)$.

Give a counterexample to the statements to prove they are false.

14. All quadratics open upward.

15. All triangles are congruent.

16. In a function, every output can only have one input.

For the following statements, state whether you agree or disagree. Then justify your point of view.

17. The best way to solve a quadratic equation is factoring.

18. A circle has 1 side.