

G.G.26: Converse 2: Identify and write the inverse, converse, and contrapositive of a given conditional statement and note the logical equivalences

- 1 What is the converse of the statement "If it is sunny, I will go swimming"?
- 2 Which statement is the converse of "If it is a 300 ZX, then it is a car"?
- 3 What is the converse of the statement "If it is Sunday, then I do not go to school"?
- 4 What is the converse of the statement "If Alicia goes to Albany, then Ben goes to Buffalo"?
- 5 What is the converse of the statement "If the Sun rises in the east, then it sets in the west"?
- 6 What is the converse of the statement "If Bob does his homework, then George gets candy"?
- 7 Which statement is the converse of "If the sum of two angles is 180° , then the angles are supplementary"?
- 8 What is the converse of the statement "If x is an even integer, then $(x + 1)$ is an odd integer"?
- 9 What is the converse of the statement "If $a^2 + b^2 = c^2$, then $\triangle ABC$ is a right triangle"?
- 10 What is the converse of "If an angle measures 90 degrees, then it is a right angle"?
- 11 Lines m and n are in plane \mathcal{A} . What is the converse of the statement "If lines m and n are parallel, then lines m and n do not intersect"?

G.G.26: Converse 2: Identify and write the inverse, converse, and contrapositive of a given conditional statement and note the logical equivalences**Answer Section**

1 ANS:

If I go swimming, it is sunny.

REF: 080014a

2 ANS:

If it is a car, then it is a 300 ZX.

REF: 080116a

3 ANS:

If I do not go to school, then it is Sunday.

REF: 060520a

4 ANS:

If Ben goes to Buffalo, then Alicia goes to Albany.

REF: 080521a

5 ANS:

If the Sun sets in the west, then it rises in the east.

REF: 060717a

6 ANS:

If George gets candy, then Bob does his homework.

REF: 061009ge

7 ANS:

If two angles are supplementary, then their sum is 180° .

REF: 010415a

8 ANS:

If $(x + 1)$ is an odd integer, then x is an even integer.

REF: 060816a

9 ANS:

If $\triangle ABC$ is a right triangle, then $a^2 + b^2 = c^2$.

REF: 080813a

10 ANS:

If an angle is a right angle, then it measures 90 degrees.

REF: 061314ge

11 ANS:

If lines m and n do not intersect, then lines m and n are parallel.

REF: 081318ge