

NAME: _____

- Find the converse of "If it is a house, then it is a dwelling."
[A] If it is a house, then it is not a dwelling.
[B] If it is a dwelling, then it is a house.
[C] If it is a dwelling, then it is not a house.
[D] If it is not a house, then it is not a dwelling.
- Find the converse of "If it is a dog, then it is a pet."
[A] If it is a pet, then it is a dog.
[B] If it is a pet, then it is not a dog.
[C] If it is a dog, then it is not a pet.
[D] If it is not a dog, then it is not a pet.
- Find the converse of "If it is a rose, then it is a flower."
[A] If it is a rose, then it is not a flower.
[B] If it is a flower, then it is a rose.
[C] If it is not a rose, then it is not a flower.
[D] If it is a flower, then it is not a rose.
- Give the converse of "If it is a pigeon, then it is a bird."
- Give the converse of "If it is a box, then it is a container."
- State Theorem 12-4 as a conditional: two segments tangent to a circle from a point outside the circle are congruent. Then state its converse.
- Write as a conditional: two inscribed angles that intercept the same arc are congruent. Then write its converse. Do you think the converse is true? Give an example to justify your answer.
- True or False: Even if a conditional statement is true, its converse may be false.
- True or False: If a conditional statement is true, its converse is true also.
- True or False: The phrase "if and only if" means both the conditional and its converse are true.

[1] B

[2] A

[3] B

[4] If it is a bird, then it is a pigeon.

[5] If it is a container, then it is a box.

If two segments are tangent to a circle from a point outside the circle, then they are congruent. If two segments drawn from a point outside the circle are congruent, then

[6] they are tangent to the circle.

If two inscribed angles intercept the same arc, then they are congruent. Converse: if two inscribed angles are congruent, then they intercept the same arc. The converse is not

[7] true; check students' examples.

[8] true

[9] false

[10] true