Validity Worksheet *Philosophy 109* September 6, 2019

Instructions: Say whether each argument is valid or invalid. If it is invalid, give a counterexample.

1. P1 If Jane has a cat, then Jane has a pet
   P2 Jane has a cat.
   C Therefore, Jane has a pet

2. P1 If Jane has a cat, then Jane has a pet
   P2 Jane has a pet.
   C Therefore, Jane has a cat

3. P1 If Jane has a cat, then Jane has a pet
   P2 It is not the case that Jane has a pet.
   C Therefore, it is not the case that Jane has a cat.

4. P1 If Jane has a cat, then Jane has a pet
   P2 It is not the case that Jane has a cat.
   C Therefore, it is not the case that Jane has a pet

5. P1 If pigs fly, then hell has frozen over
   P2 Pigs fly
   C Therefore, hell has frozen over.

6. P1 If pigs fly, then hell has frozen over
   P2 Pigs fly
   C Therefore, hell has frozen over.

7. P1 It is not the case that Yoda is green
   P2 If Darth Vader is Luke's Dad, then Yoda is green
   C Therefore, it is not the case that Darth Vader is Luke's dad

8. P1 Dan plays the cello
   P2 If Mary plays the harp, then Owen plays the clarinet
   C Therefore, it is not the case that Mary plays the harp

9. P1 All smurfs are snorks
   P2 All snorks are ewoks
   C Therefore, all smurfs are ewoks

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10. P1 All smurfs are snorks
    P2 All ewoks are snorks
    C Therefore, all smurfs are ewoks

11. P1 Some smurfs are snorks

    P2 All snorks are ewoks

    C Therefore, some smurfs are ewoks

12. P1 Some smurfs are snorks

    P2 Some snorks are ewoks

    C Therefore, some smurfs are ewoks

13. P1 All smurfs are snorks

    P2 Some snorks are ewoks

    C Therefore, some smurfs are ewoks

14. P1 Lentils are a great lunch food.

    C Therefore, lentils are a great lunch food.

15. P1 If Meatloaf is the GOAT, then Meatloaf is the GOAT.

    P2 Meatloaf is not the GOAT.

    C Therefore, Meatloaf is not the GOAT.

16. P1 Either all smurfs are snorks or all smurfs are eworks

    P2 No smurf is a snork.

    C Therefore, all smurfs are ewoks

17. P1 Either all smurfs are snorks or all smurfs are eworks

    P2 Some smurfs are snorks.

    C Therefore, all smurfs are ewoks

18. P1 Either all smurfs are snorks or all smurfs are eworks

    P2 Some smurfs are snorks.

    C Therefore, all smurfs are snorks.

19. P1 All smurfs are snorks and all smurfs dress business casual.

    C Therefore, all smurfs dress business casual.

20. P1 All smurfs are not snorks and all smurfs are not ewoks

    C Therefore, no smurf is a snork or an ewok.