

**Worksheet Exercise 2.3.C.**

Name \_\_\_\_\_

## Various Symbolizations

Class \_\_\_\_\_ Date \_\_\_\_\_

**Part C.** Symbolize the following constructions.

1. A, B, so C

2. A, since B and C

3. A, so B, since C

4. A and B

5. A but B

6. A but not B

7. A even though not B

8. A or B

9. either A or B

10. not not A

11. that not A is not true

12. it is not false that not A

13. not both A and B

14. not both A and not B

15. both not A and not B

16. neither A nor B

17. not either A or B

18. either not A or not B

19. not either not A or not B

20. A, B, and C

21. A, B, or C

22. one of A, B, and C

23. not all of A, B, and C

24. not any of A, B, and C

25. not one of A, B, and C

26. if A then B

27. B, if A

28. if not A then not B

29. not B if not A

30. not A unless B

31. not A unless not B

32. A unless B

33. A unless not B

34. A only if B

35. not A only if B

36. A only if not B

37. not A without B

38. A without B

39. A if and only if B

40. A but only if B

41. Only if B, A

42. if and only if A, B

43. A exactly when B

44. if A and B then C

45. if A and if B then C

46. if A then if B then C

47. if A then both B and C

48. if A then either B or C

49. if A or B then C

50. not if A, then not B

51. unless B, not A