Math 3H Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Per:\_\_\_

9.1 Combine and Evaluate Functions

Find an algebraic expression for h(x) and determine its domain.

|  |  |  |  |
| --- | --- | --- | --- |
| 1. | | 2. | |
| 3. | | 4. | |
| Let Evaluate each of the following. | | | |
| 5. | 6. | | 7. |
| 8. | 9. | | 10. |
| 11. | 12. | | 13. |
| 14. | 15. | | 16. |
| Let . Evaluate each composite function. | | | |
| 17. | 18. | | 19. |
| 20. | 21. | | 22. |
| 23. | 24. | | 25. |
| Find the indicated composite function and its domain. | | | |
| 26. | | 27. | |
| 28. | | 29. | |
| 30. A balloon’s radius can be modeled by the equation , where t is the time in seconds and r is measured in centimeters. The volume of a sphere is . Write the formula for . Find the volume of the balloon at 30 seconds. | | | |