Integration Review #1

|  |  |  |  |
| --- | --- | --- | --- |
| 1. |  | 11. |  |
| 2. |  | 12. |  |
| 3. |  | 13. |  |
| 4. |  | 14. |  |
| 5. |  | 15. |  |
| 6. |  | 16. |  |
| 7. |  | 17. |  |
| 8. |  | 18. |  |
| 9. |  | 19. |  |
| 10. |  | 20. |  |

Integration Review #2

|  |  |  |  |
| --- | --- | --- | --- |
| 1. |  | 12. |  |
| 2. |  | 13. |  |
| 3. |  | 14. |  |
| 4. |  | 15. |  |
| 5. |  | 16. |  |
| 6. |  | 17. |  |
| 7. |  | 18. |  |
| 8. |  | 19. |  |
| 9. |  | 20. |  |
| 10. |  | 21. |  |
| 11. |  |  |  |

Integration Practice #3

|  |  |  |  |
| --- | --- | --- | --- |
| 1. |  | 13. |  |
| 2. |  | 14. |  |
| 3. |  | 15. |  |
| 4. |  | 16. |  |
| 5. |  | 17. |  |
| 6. |  | 18. |  |
| 7. |  | 19. |  |
| 8. |  | 20. |  |
| 9. |  | 21. |  |
| 10. |  | 22. |  |
| 11. |  | 23. |  |
| 12. |  | 24. |  |

Practice: Integration by Parts (Day 1)

|  |  |
| --- | --- |
| #1 a. |  |
| b. |  |
| c. |  |
| d. |  |
| e. |  |
| f. |  |
| g. |  |
| #2 a. |  OR  |
|  |  OR  |

Integration by Parts “Review and Renew” (Day 2)

|  |  |  |  |
| --- | --- | --- | --- |
| 1. |  | 11. |  |
| 2. |  | 12. |  |
| 3. |  | 13. |  |
| 4. |  | 14. |  |
| 5. |  | 15. |  |
| 6. |  | 16. |  |
| 7. |  | 17. |  |
| 8. |  | 18. |  |
| 9. |  | 19. |  |
| 10. |  | 20. |  |

Integration by Partial Fractions

|  |  |  |  |
| --- | --- | --- | --- |
| 1. |  | 11. |  |
| 2. |  | 12. |  |
| 3. |  | 13. |  |
| 4. |  | 14. |  |
| 5. |  | 15. |  |
| 6. |  | 16. |  |
| 7. |  | 17. |  |
| 8. |  | 18. |  |
| 9. |  | 19. |  |
| 10. |  | 20. |  |

Practice: L’Hopital’s Rule (Day 1)

|  |  |  |  |
| --- | --- | --- | --- |
| 1. |  | 9. | 1 |
| 2. |  | 10. |  |
| 3. |  | 11. |  |
| 4. |  | 12. | 0 |
| 5. | 0 | 13. | 1 |
| 6. | 2 | 14. | 0 |
| 7. |  | 15. | 0 |
| 8. |  | 16. |  |

L’Hopital’s Rule Worksheet

|  |  |  |  |
| --- | --- | --- | --- |
| 1. |  |  |  |
| 2. |  |  |  |
| 3. |  |  |  |
| 4. | 0 |  |  |
| 5. | 0 |  |  |
| 6. | 2 |  |  |
| 7. | 1 |  |  |
| 8. | 1 |  |  |
| 9. |  |  |  |
| 10. | 0 |  |  |
|  |  |  |  |

Practice: L’Hopital (Multiple-Choice)

|  |  |
| --- | --- |
| 1. | A |
| 2. | B |
| 3. | A |
| 4. | B |
| 5. | D |
| 6. | A |
| 7. | B |
| 8. | A |
| 9. | A |
| 10. | B |
|  |  |
|  |  |
|  |  |

Practice: Improper Integrals

|  |  |
| --- | --- |
| 1. | 4 |
| 2. | diverges |
| 3. | diverges |
| 4. | 6 |
| 5. | 1 |
| 6. |  |
| 7. | 1 |
| 8. | diverges |
| 9. | diverges |
| 10. | 2 |
| 11. |  |
| 12. |  |
| 13. |  |
| 14. |  |

Integration Review (All Methods)

|  |  |  |  |
| --- | --- | --- | --- |
| 1. |  | 10. |  |
| 2. |  | 11. |  |
| 3. |  | 12. | diverges |
| 4. |  | 13. | 1 |
| 5. |  | 14. |  |
| 6. |  | 15. |  |
| 7. |  | 16. | 0 |
| 8. |  | 17. | e |
| 9. |  | 18. |  |

Puzzle Practice

What do you call ratios that are very fond of one another?

 *Partial fractions*

Why was $e^{x^{2}}$ turned down for membership to the exclusive anti-derivative club?

 *They knew he wouldn’t integrate*

What do you call an uncontrollable urge to perform differential and integration?

 *It’s called calculust*