NAME: _____

DATE: _____

Integrate and evaluate.

1. $\displaystyle\int_{3}^{4} 2dx$

2. $\displaystyle\int_{2}^{1} dx$

3. $\displaystyle\int_{1}^{2} (x+x^2)dx$

4. $\displaystyle\int_{3}^{2} (3x-1)(2x+3)dx$

5. $\displaystyle\int_{1}^{0} \frac{x^2-25}{x-5}dx$

6. $\displaystyle\int_{\pi/2}^{0} 3\cos x dx$

7. $\displaystyle\int_{0}^{2} (4x^3-3x^2+7x-8)dx$

8. $\displaystyle\int_{0}^{8} (2-\sqrt[3]{x})^2 dx$

9. $\displaystyle\int_{0}^{\pi/3} \sec^2 x dx$

10. $\displaystyle\int_{0}^{1} \frac{x^2}{(x^3+1)^5}dx$

11. $\displaystyle\int_{0}^{1} x\sqrt{9-5x^2}dx$

12. $\displaystyle\int_{0}^{1} (2x+3)^{10}dx$

Integrate.

13. $\displaystyle\int \frac{1}{\sqrt[3]{5x+1}}dx$

14. $\displaystyle\int \frac{2x^3+1}{(x^4+2x)^3}dx$

15. $\displaystyle\int 2\sin 3xdx$

16. $\displaystyle\int (2+\cos 3x)dx$

17. $\displaystyle\int \sqrt{4-3x}dx$

18. $\displaystyle\int \frac{1}{7x+5}dx$

19. $\displaystyle\int \frac{4x}{x^2+7}dx$

20. $\displaystyle\int \frac{\sin x}{9+\cos x}dx$

21. $\displaystyle\int \frac{(\ln x)^2}{x}dx$

22. $\displaystyle\int \frac{x^2-4}{x}dx$

23. $\displaystyle\int \frac{x^2+x+1}{x^2+1}dx$

24. $\displaystyle\int \frac{\sec^2 x}{\tan x}dx$

25. $\displaystyle\int \frac{\ln(x+1)}{(x+1)}dx$

26. $\displaystyle\int \frac{1}{x^2 e^{\frac{3}{x}}}dx$

27. $\displaystyle\int \frac{e^{\frac{3}{x}}}{x^2}dx$

28. $\displaystyle\int (-4x^3)(e^{-x^4})dx$

29. $\displaystyle\int e^{(3x+1)}dx$

30. $\displaystyle\int x^2 e^{(x^3+1)}dx$