

Calcule as seguintes integrais definidas:

1. $\int_0^1 (x + 3)dx$

6. $\int_1^1 (2x + 3)dx$

11. $\int_1^3 (5 + \frac{1}{s^2})ds$

16. $\int_0^2 (t^2 + 3t - 1)dt$

2. $\int_0^4 \frac{1}{2} dx$

7. $\int_{-2}^{-1} (\frac{1}{x^2} + x)dx$

12. $\int_{-1}^1 (x^7 + x^3 + x)dx$

17. $\int_{0,5}^1 (s + 2)ds$

3. $\int_1^3 dx$

8. $\int_1^4 \frac{1}{\sqrt{x}} dx$

13. $\int_1^4 (5x + \sqrt{x})dx$

18. $\int_1^2 (s^2 + 3s + 1)ds$

4. $\int_1^3 \frac{1}{x^3} dx$

9. $\int_{-1}^0 (x^3 - 2x + 3)dx$

14. $\int_1^2 (\frac{1+x}{x^3})dx$

19. $\int_1^3 (1 + \frac{1}{x})dx$

5. $\int_0^2 (x^2 + 3x - 3)dx$

10. $\int_1^2 (x^3 + x + \frac{1}{x^3})dx$

15. $\int_1^4 (\frac{1+x}{\sqrt{x}})dx$

20. $\int_{-\frac{\pi}{3}}^{\frac{\pi}{2}} \cos 2x dx$

Gabarito

1. 7/2 2. 2 3. 2 4. 4/9 5. 8/3 6. 0 7. -1 8. 2 9. 15/4 10. 45/8 11. 32/3

12. 0 13. 253/6 14. 7/8 15. 20/3 16. 20/3 17. 11/8 18. 47/6 19. 2 + ln3 20. $\sqrt{3}/4$