

TALLER DE REFUERZO - CÁLCULO

I. DERIVAR

1. $y = 3x^3 - 5x^2 + 4x - 2$

2. $f(x) = \frac{2}{x^{-2}} - \frac{1}{x^{-4}} + \frac{3}{x^3}$

3. $y = x^{-3} + 2x^{-5} - x^{-1}$

4. $f(x) = \frac{2x+5}{3x-1}$

5. $f(x) = \frac{3x^2}{4x+3}$

6. $y = (5x + 3)(7x - 2)$

7. $y = (x^2 - 3x)(2x^3)$

8. $y = (6x^3 + 3x^2 - 2)^7$

9. $y = (8x^2 + 4x - 3)^5$

10. $y = \sqrt{9x^2 - 2}$

11. $y = \sqrt[3]{(2x - 3)}$

12. $y = \ln(4 + 5x)$

13. $f(x) = \ln 3x^2$

14. $f(x) = \cos(\ln x)$

15. $y = e^{5x^2} + e^{3x}$

16. $y = e^x + e^{-x}$

17. $f(x) = e^{2x} + e^{6x^2}$

18. $y = \text{sen } 3x^2 + \text{cox } 5x$

19. $y = 4x^2 \cos x$

20. $y = 3 \sec x \tan x$

II. HALLAR LA ANTIDERIVADA

1. $\int (2 - 3x) dx$

2. $\int (2x^3 + x^2 - 1) dx$

3. $\int \sqrt{2x} dx$

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

5. $\int \sqrt[3]{x} dx$

6. $\int (3x^2 - x + 2) dx$

7. $\int (x^3 - 2x^2) dx$

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

9. $\int \left(\frac{2}{x} - \frac{1}{x^{-2}} \right) dx$

10. $\int \frac{\sqrt[3]{x}}{\sqrt{x}} dx$

NOTA: Resolver el taller en hojas examen y entregarlo el día de la evaluación.

ÉXITOS.