TAREA 4 – 4

Derivar las siguientes funciones usando las fórmulas 13 a 19 del formulario proporcionado.

PROBLEMA

1. $y = \sin ax^2$

2. $y = \tan\sqrt{1-x}$

3. $y = \cos^3 x$

4. $y = \sin nx \sin^n x$

5. $y = \sin ax$

6. $y = 3\cos 2x$

7. $s = \tan 3t$

8. $u = 2\cot\dfrac{v}{2}$

9. $y = \sec 4x$

10. $\rho = a\csc b\theta$

11. $y = \frac{1}{2}\sin^2 x$

12. $s = \sqrt{\cos 2t}$

13. $\rho = \sqrt[3]{\tan 3\theta}$

14. $y = \dfrac{4}{\sqrt{\sec x}}$

15. $y = x\cos x$

16. $f(\theta) = \tan\theta - \theta$

17. $\rho = \dfrac{\sin\theta}{\theta}$

18. $y = \sin 2x \cos x$

19. $y = \ln\sin ax$

20. $y = \ln\sqrt{\cos 2x}$

21. $y = e^{ax}\sin bx$

22. $s = e^{-t}\cos 2t$

23. $y = \ln\tan\dfrac{x}{2}$

24. $y = \ln\sqrt{\dfrac{1+\sin x}{1-\sin x}}$

25. $f(\theta) = \sin(\theta+a)\cos(\theta-a)$

26. $f(x) = \sin^2(\pi-x)$

27. $\rho = \dfrac{1}{3}\tan^3\theta - \tan\theta + \theta$

28. $y = x^{\sin x}$

29. $y = (\cos x)^x$