Boletín de derivadas

1.- $\boldsymbol{f(x) = 3}$ **2.** $\boldsymbol{f(x) = x + 5}$ 3. $f(x) = x^7$ **4. f(x)=**$\boldsymbol{x^6 - x^3}$

5. $f(x) = 2x^4$ **6.** $\boldsymbol{f(x) = ax + b}$ 7. $f(x) = 5x - 2$ 8. $f(a) = a^5$

9. $f(x) = ax^2 + bx + c$ 10. $f(x) = x(x - 1)$ **11.** $\boldsymbol{f(x) = (x + 1)(x - 1)}$

12. $f(x) = ax^3 + bx^2 + cx + d$ 13. $f(x) = x^3 - x^2 + 4x - 5$

14. $f(x) = x^4 - 4x^3 + 5x^2$ 15. $f(x) = 2x^3 + 3x^2 - 6x + 5$

16. $f(x) = (x + 1)(x^2 - x + 3)$ **17.** $\boldsymbol{f(x) = x(x - 1)^2}$ **18.** $\boldsymbol{f(x) = a(x - 1)^2}$

19. $\boldsymbol{f(a) = a(a - 1)^2}$ 20. $f(x) = x^{-2}$ 21. $f(x) = \frac{1}{x+1}$

22. $\boldsymbol{f(x) = \frac{x^2-3}{x^3+x}}$ 23. $f(x) = \frac{x+1}{x}$ 24. $f(x) = \frac{x(x+1)(x-1)}{3x^2-3}$

25. $f(x) = \frac{x(x+2)^2}{x^2+4x+4}$ **26.** $\boldsymbol{f(x) = \sqrt{3x - 2}}$ 27. $f(x) = \sqrt{2x - 1}$

28. $\boldsymbol{f(x) = \sqrt{x^2 + 1}}$ 29. $f(x) = \sqrt{\frac{1-x}{1+x}}$ 30. $f(x) = \frac{1-x}{\sqrt{1-x^2}}$

31. $\boldsymbol{f(x) = e^{4x}}$ **32.** $\boldsymbol{f(x) = 5^{2x}}$ 33. $f(x) = e^{3-x^2}$

34. $f(x) = \frac{e^x+e^{-x}}{2}$ **35.** $\boldsymbol{f(x) = x^3 2^x e^x}$ **36.** $\boldsymbol{f(x) = \frac{e^x-e^{-x}}{e^x+e^{-x}}}$

37. $f(x) = a^{x^2+x+1}$ **38.** $\boldsymbol{f(x) = ln(x^2 + 1)}$ 39. $f(x) = ln(ax^2 + bx + c)$

40. $f(x) = ln^5 3x$ 41. $x^5 lnx$ 42. $f(x) = x^2 ln(2 - x)$

43. $f(x) = \frac{lnx}{x}$ **44.** $\boldsymbol{f(x) = \log_3(3x^2 + 5)}$ 45. $f(x) = ln(x - 5)$

46. $f(x) = \log_a(3x^2 + 5)$ 47. $f(x) = xlnx - x$ 48. $f(x) = ln\sqrt{1 + x^2}$

49. $\boldsymbol{f(x) = \sqrt{\frac{1-x}{1+x}}}$ 50. $f(x) = ln\frac{x^2+1}{x^2-1}$ 51. $f(x) = sen\ 2x$

52. $\boldsymbol{f(x) = \cos(2x + 1)}$ 53. $f(x) = tx\ (x^2 + x + 1)$ 54. $f(x) = tx\sqrt{x}$

55. $\boldsymbol{f(x) = sec(3x^2 + 4x - 1)}$ 56. $f(x) = cosec\frac{x}{a}$ **57.** $\boldsymbol{f(x) = \sqrt{sen\ 3x}}$

58. $f(x) = sen^{2/3}x$ 59. $f(x) = xcosx$ 60. $f(x) = \ln senx$

61. $f(x) = senx \cdot cos2x$ 62. $f(x) = e^x tx\ x$ **63.** $\boldsymbol{f(x) = arcsen\ 2x}$

64. $f(x) = arcose\ \sqrt{x}$ **65.** $\boldsymbol{f(x) = arccos|x^2 + 1|}$ 66. $f(x) = \frac{1}{3}tx^3x - tx\ x + x$

67. $f(x) = arctx\frac{1+x}{1-x}$ 68. $f(x) = \left(\frac{1-sen\ x}{1+sen\ x}\right)^2$ 69. $f(x) = \ln(tx\ x)$

70. $\boldsymbol{f(x) = ln\sqrt{\frac{1+\cos x}{1-\cos x}}}$ 71. $f(x) = ln\sqrt{sen\ x}$ 72. $f(x) = arcsecx^2$

73. $f(x) = arcctx(2x + 1)$ 74. $f(x) = sen(sen2x))$ 75. $f(x) = sen(\ln(3x + 5))$

76. $\boldsymbol{f(x) = arcsen(cosx - x)}$ 77. $f(x) = \ln(x + lnx)$ 78. $f(x) = arcsen\left(\frac{1}{1+x^2}\right)$

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79. $\boldsymbol{f(x) = lg\left(\frac{lgx}{x}\right)}$

80. $f(x) = ln^{1/2} sen2x$

81. $f(x) = x^2 cos3x$

82. $f(x) = x^{x+1}$

83. $\boldsymbol{f(x) = \left(1 + \frac{1}{x}\right)^x}$

84. $f(x) = (x^5)^{x^2+1}$

85. $\boldsymbol{f(x) = x^{e^x}}$

86. $f(x) = (3x + 1)^{2x+3}$

87. $f(x) = (sen\, x)^x$

88. $f(x) = x^{sen(2x-9)}$

89. $\boldsymbol{(sen\, x)^{\cos x}}$

90. $\boldsymbol{f(x) = (\ln x)^{lnx}}$

91. $(x^2 - 1)^{sen\, x}$