Derivative

December 13, 2021

Calculations 1 derivative:
$(\tan(x))^{(1)} = \frac{(1.000)}{(\cos(x)^{2.000})}$
1 Derivative :
$(\tan(x))^{(1)} = \frac{(1.000)}{(\cos(x)^{2.000})}$

Calculations 2 derivative:
$(\cos(x))^{(1)} = -1.000 * \sin(x)$
$(\cos(x)^{2.000})^{(1)} = -2.000 * \sin(x) * \cos(x)$
$(\frac{(1.000)}{(\cos(x)^{2.000})})^{(1)} = \frac{(2.000*\sin(x)*\cos(x))}{(\cos(x)^{4.000})}$
2 Derivative :
$(\tan(x))^{(2)} = \frac{(2.000*\sin(x)*\cos(x))}{(\cos(x)^{4.000})}$

Calculations 3 derivative:
$(\sin(x))^{(1)} = \cos(x)$
$(\cos(x))^{(1)} = -1.000 * \sin(x)$
$(\sin(x) * \cos(x))^{(1)} = \cos(x) * \cos(x) + -1.000 * \sin(x) * \sin(x)$
$(2.000 * \sin(x) * \cos(x))^{(1)} = 2.000 * (\cos(x) * \cos(x) + -1.000 * \sin(x) * \sin(x))$
$(\cos(x))^{(1)} = -1.000 * \sin(x)$
$(\cos(x)^{4.000})^{(1)} = -4.000 * \sin(x) * \cos(x)^{3.000}$
$(\frac{(2.000*\sin(x)*\cos(x))}{(\cos(x)^{4.000})})^{(1)} = \frac{(2.000*(\cos(x)*\cos(x)+-1.000*\sin(x)*\sin(x))*\cos(x)^{4.000}--8.000*\sin(x)*\cos(x)^{3.000}*\sin(x)*\cos(x))}{(\cos(x)^{8.000})}$
3 Derivative :
$(\tan(x))^{(3)} = \frac{(2.000*(\cos(x)*\cos(x)+-1.000*\sin(x)*\sin(x))*\cos(x)^{4.000}--8.000*\sin(x)*\cos(x)^{3.000}*\sin(x)*\cos(x))}{(\cos(x)^{8.000})}$