$$Find\ \frac{d}{dx}\ (ctg(-3*x^3+10*x^2+9*x+8))(x^2-x-4))$$

$$Find\ \frac{d}{dx}\ (sin(-4*x^2-8*x+6))^{-2*x-6}$$

$$Find\ \frac{d}{dx}\ (ctg(-2{*}x^3{-}8{*}x^2{-}9{*}x{-}7))(-10{*}x^3{+}8{*}x^2{+}5{*}x{+}7)(-6{*}x^3{+}5{*}x{-}10))$$

$$Find\ \frac{d}{dx}\ (sin(2*x^3-6*x^2+10*x+8))^{3*x-10}$$

$$Find\ \frac{d}{dx}\ (sin(3*x^2-10*x-3))^{-7*x^2-1}$$

$$Find\ \int \frac{(10)}{sin^2(-10*x-10)}\ dx$$

$$Find\ \int cos(-x^2-5*x+10)*(-2*x-5)\ dx$$

$$Find\ \int \frac{6*x-7}{cos^2(3*x^2+6*x-7)}\ dx$$

$$Find\ \int (6*x^3+7*x^2-4*x+8)(6*x^2+7*x-1)\ dx$$

$$Find\ \int (5*x+3)(-10*x+9)\ dx$$

$$Find:\ lim_{x\to\infty}\quad (3*x^2+4*x-8)^{\frac{1}{2}}-(x^2+8*x+7)^{\frac{1}{2}}$$

$$Find\ x,\ when:\ lim_{n\to\infty}\quad \frac{-x^2-6*x+11}{-x^2-6*x+10}\frac{(x^2-5x)^{n^3}}{(x^2-2x)^{n^3}}=e^1$$

$$Find:\ lim_{x\to\infty}\quad (6*x+4)^{\frac{1}{2}}-(9*x)^{\frac{1}{2}}$$

$$Find:\ lim_{x\to -1}\quad \frac{x+1}{x+1}$$

$$Find\ x,\ when:\ lim_{n\to\infty}\quad \frac{-6*x^2-x+2}{-6*x^2-x-5}\frac{(x^2+x-20)^{n^3}}{(x^3+8x^2+11x-20)^{n^3}}=e^7$$