

10. The following functions are periodic:

$$f_1(x) = \sin^2(x) \quad f_2(x) = \cos^2(x) \quad g_1(x) = \sin^2(x) + \cos^2(x) \quad g_2(x) = \sin^2(x) + \cos^2(x)$$

Therefore, derive the corresponding antiderivatives (indefinite integrals) for each function.

$$\begin{aligned}
 \int f_1(x) dx &= \int \sin^2(x) dx = \frac{x}{2} - \frac{\sin(2x)}{4} + C \\
 \int f_2(x) dx &= \int \cos^2(x) dx = \frac{x}{2} + \frac{\sin(2x)}{4} + C \\
 \int g_1(x) dx &= \int 1 dx = x + C \\
 \int g_2(x) dx &= \int 1 dx = x + C
 \end{aligned}$$

11. Given $f(x) = \frac{1}{x^2}$ for $x > 0$ and $g(x) = \frac{1}{x}$ for $x > 0$.

(a) Use the power rule to find the antiderivatives:

$$\int f(x) dx = \int x^{-2} dx = \frac{x^{-1}}{-1} = -\frac{1}{x} + C$$

Since $f(x) = x^{-2}$ and $g(x) = x^{-1}$, the antiderivatives are $F(x) = -\frac{1}{x} + C$ and $G(x) = \ln|x| + C$.

(b) The slope of the tangent to the graph of f at $x = 1$ is:

Since $f(x) = x^{-2}$, $f'(x) = -2x^{-3} = -\frac{2}{x^3}$. At $x = 1$, $f'(1) = -2$.

$$f'(1) = -2$$

Since the slope of the tangent to the graph of g at $x = 1$ is $g'(1) = -\frac{1}{1^2} = -1$, the tangent lines are:

$$\begin{aligned}
 \text{For } f: y - f(1) &= f'(1)(x - 1) \Rightarrow y - 1 = -2(x - 1) \Rightarrow y = -2x + 3 \\
 \text{For } g: y - g(1) &= g'(1)(x - 1) \Rightarrow y - 1 = -1(x - 1) \Rightarrow y = -x + 2
 \end{aligned}$$

12. The area under the curve $f(x) = \frac{1}{x^2}$ from $x = 1$ to $x = 2$ is:

$$\int_1^2 \frac{1}{x^2} dx = \left[-\frac{1}{x} \right]_1^2 = -\frac{1}{2} - \left(-1\right) = \frac{1}{2}$$

13. The derivative of $\sin(x)$ is $\cos(x)$. The derivative of $\cos(x)$ is $-\sin(x)$.

14. The derivative of $\tan(x)$ is $\sec^2(x)$. The derivative of $\sec(x)$ is $\sec(x)\tan(x)$.

15. The derivative of $\csc(x)$ is $-\csc(x)\cot(x)$. The derivative of $\cot(x)$ is $-\csc^2(x)$.

16. The derivative of $\sec(x)$ is $\sec(x)\tan(x)$. The derivative of $\csc(x)$ is $-\csc(x)\cot(x)$.

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DiMarzio, 2024-03-13 This textbook provides an accessible introduction to the fundamentals of geometric and physical optics as they relate to practical problems encountered by engineers and researchers in designing and analyzing optical systems In this updated edition the author focuses on topics that are critical to understanding how the basic principles of optics affect design decisions In addition to information on breadboarding experiments and prototypes the new edition also expands its coverage of diffraction and includes numerous complete examples and practical reminders Professor Charles A DiMarzio is an associate professor in the Department of Electrical and Computer Engineering the Department of Mechanical and Industrial Engineering and the Department of Bioengineering at Northeastern University in Boston Massachusetts He spent 14 years at Raytheon Company s Electro Optics Systems Laboratory in coherent laser radar for air safety and meteorology Among other projects there he worked on an airborne laser radar flown on the Galileo II to monitor airflow related to severe storms pollution and wind energy and another laser radar to characterize the wake vortices of landing aircraft His current research in biomedical optics focuses on microscopy including coherent imaging structured illumination and multi modal imaging He is also a founding member of Gordon CenSSIS the Gordon Center for Subsurface Sensing and Imaging Systems

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