

Antiderivatives 1

- $f(x) = 8x^3 + 6x^2$
- $f(x) = x^5 - x^3$
- $f(x) = 9x - 3$
- $f(x) = \frac{2}{3}$
- $f(x) = -2x^{-3}$
- $f(x) = x^{\frac{5}{2}} + 1$
- $f(x) = (2x + 1)^2$
- $f(x) = (2 + 4x)^{\frac{1}{2}}$
- $f(x) = (x + 2)^{\frac{1}{3}}$
- $f(x) = (x - 3)^{-2}$
- $f(x) = \sqrt{5x}$
- $f(x) = \sqrt{x} + \frac{1}{\sqrt{x}}$

- $f(x) = \frac{x^2 + 4}{x^4}$
- $f(x) = \frac{1}{3}x^{\frac{4}{3}} - 7x + 2$
- $f(x) = x(x^2 + 9)$
- $f(x) = 3x^2(x^3 - 8)$
- $f(x) = x^3(2x^4 - 5)$
- $f(x) = 5x(x^2 + 1)^{\frac{1}{2}}$
- $f(x) = \frac{2x}{(x^2 + 1)^3}$
- $f(x) = \frac{-4x^5}{\sqrt{2x^6 - 5}}$
- $f(x) = (16x^3 - 10)(2x^4 - 5x)^2$
 - $f(x) = (3x^2 - 4x)(x^3 - 2x^2)^3$
 - $f(x) = \sin 3x$

- $f(x) = \cos 4x$
- $f(x) = 2 \sin x \cos x$
- $f(x) = \cos^2 x \sin x$
- $f(x) = 5(\sin x)^{\frac{1}{2}} \cos x$
- $f(x) = \cos\left(\frac{1}{2}x + 1\right)$
- $f(x) = (2x + 3)\sin(x^2 + 3x)$
- $f(x) = x^2 \cos(x^3 + 1)$
- $f(x) = \frac{\sin x}{\cos^3 x}$
- $f(x) = \frac{\cos x}{\sin^2 x}$
- $f(x) = \frac{\cos x}{(1 - \sin)^2}$
- $f(x) = \sin x + \sin 2x$
- $f(x) = 5 \sec^2 x$
- $f(x) = (x + 1)\cos(x + 1)^2$

Answers

- $2x^4 + 2x^3 + c$
- $\frac{1}{6}x^6 - \frac{1}{4}x^4 + c$
- $\frac{9}{2}x^2 - 3x + c$
- $\frac{2}{3}x + c$
- $x^{-2} + c$
- $\frac{2}{7}x^{\frac{7}{2}} + x + c$
- $\frac{1}{6}(2x + 1)^3 + c$
- $\frac{1}{6}(2 + 4x)^{\frac{3}{2}} + c$
- $\frac{3}{4}(x + 2)^{\frac{4}{3}} + c$
- $-(x - 3)^{-1} + c$
- $\frac{2}{3}x^{\frac{3}{2}} + 2x^{\frac{1}{2}} + c$
- $-x^{-1} - \frac{4}{3}x^{-3} + c$

- $-\frac{1}{2}x^{\frac{7}{2}} - \frac{1}{2}x^2 + 2x + c$
- $\frac{1}{4}(x^2 + 9)^2 + c$
- $\frac{1}{2}(x^3 - 8)^2 + c$
- $\frac{1}{16}(2x^4 - 5)^2 + c$
- $\frac{5}{3}(x^2 + 1)^{\frac{3}{2}} + c$
- $-\frac{1}{2}(x^2 + 1)^{-2} + c$
- $-\frac{2}{3}\sqrt{2x^6 - 5} + c$
- $\frac{2}{3}(2x^4 - 5x)^3 + c$
- $\frac{1}{4}(x^3 - 2x^2)^4 + c$
- $-\frac{1}{3}\cos 3x + c$
- $\frac{1}{4}\sin 4x + c$
- $\sin^2 x + c$

- $-\frac{1}{3}\cos^3 x + c$
- $\frac{10}{3}(\sin x)^{\frac{3}{2}} + c$
- $2\sin\left(\frac{1}{2}x + 1\right) + c$
- $-\cos(x^2 + 3) + c$
- $\frac{1}{3}\sin(x^3 + 1) + c$
- $\frac{1}{2\cos^2 x} + c$
- $\frac{1}{\sin x} + c$
- $\frac{1}{1 - \sin x} + c$
- $-\cos x - \frac{1}{2}\cos 2x + c$
- $5 \tan x + c$
- $\frac{1}{2}\sin(x + 1)^2 + c$