

# Calculus I

## Antiderivatives of a function, part 1

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$$\begin{aligned} g'(x) &= 4 \sin x + 2x^4 - \frac{1}{\sqrt{x}} \\ g(x) &= 4(-\cos x) + 2 \frac{x^5}{5} - \frac{x^{1/2}}{\frac{1}{2}} + C \\ &= -4 \cos x + \frac{2}{5} x^5 - 2\sqrt{x} + C \end{aligned}$$