Finding Integrals

$F(x) = x^n \quad F(x) = \frac{x^{n+1}}{n+1} + C$

$F(x) = \frac{1}{x} \quad F(x) = \ln|x| + C$

Ex: $g'(x) = 4\sin x + \frac{2x^5 - \sqrt{x}}{x} = 4\sin x + 2x^4 - x^{-\frac{1}{2}}$

$g(x) = -4\cos x + \frac{2x^5}{5} - \frac{x^{\frac{1}{2}}}{\frac{1}{2}} = -4\cos x + \frac{2}{5}x^5 - 2\sqrt{x}$