(19) $\int_1^3 4t^{3/2} + t^{-1/2}\,dt$

$= -\int_3^1 4t^{3/2} + t^{-1/2}\,dt$

(31) $\int_1^{27} \frac{t+1}{\sqrt{t}}\,dt$

$\int \sqrt{t} + \frac{1}{\sqrt{t}}\,dt$

$\int t^{1/2} + t^{-1/2}\,dt$

$\frac{2}{3}t^{3/2} + 2t^{1/2}\Big|_1^{27}$

$\frac{2}{3}(27)^{3/2} + 2(27)^{1/2} - \left(\frac{2}{3}\cdot 1^{3/2} + 2\cdot 1^{1/2}\right)$

$\frac{2}{3}(27)^{3/2} + 2(27)^{1/2} - \frac{8}{3}$

fnInt((X+1)/√X, X, 1, 27)

nDeriv(fn(X), X, π/3)