

$$\begin{aligned} &> \int \frac{1}{1 + \sin(x)} dx \\ & \qquad \qquad \qquad - \frac{2}{\tan\left(\frac{1}{2} x\right) + 1} \end{aligned} \tag{1}$$

$$\begin{aligned} &> \int \frac{1}{\cos(x) \cdot (\sin(x) - \cos(x))} dx \\ & \qquad \qquad \qquad \ln(\tan(x) - 1) \end{aligned} \tag{2}$$

$$\begin{aligned} &> \int \frac{1}{x^5 - x} dx \\ & \qquad \qquad \qquad \frac{1}{4} \ln(x^2 + 1) - \ln(x) + \frac{1}{4} \ln(x - 1) + \frac{1}{4} \ln(x + 1) \end{aligned} \tag{3}$$

$$\begin{aligned} &> \int_1^4 \sqrt{1 + \frac{9}{4}x} dx \\ & \qquad \qquad \qquad - \frac{13}{27} \sqrt{13} + \frac{80}{27} \sqrt{10} \end{aligned} \tag{4}$$

$$\begin{aligned} &> \text{evalf}\left(-\frac{13}{27} \sqrt{13} + \frac{80}{27} \sqrt{10}\right) \\ & \qquad \qquad \qquad 7.633705415 \end{aligned} \tag{5}$$

>