

Answer on Question #41903 – Math – Integral Calculus:

$$\int \frac{2zdz}{(z^2 + 1)^{\frac{1}{3}}} = \int \frac{d(z^2 + 1)}{(z^2 + 1)^{\frac{1}{3}}} = [z^2 + 1 = t] = \int t^{-\frac{1}{3}} dt = \frac{t^{\frac{2}{3}}}{\frac{2}{3}} + C = \frac{3}{2}(z^2 + 1)^{\frac{2}{3}} + C.$$