PROOF OF FORMULA 4.295.11

$$\int_0^1 \frac{\ln(1-x^2)}{x}\, dx = -\frac{\pi^2}{12}$$

The change of variables $t = 1 - x^2$ gives

$$\int_0^1 \frac{\ln(1-x^2)}{x}\, dx = \frac{1}{2}\int_0^1 \frac{\ln t}{1-t}\, dt$$

and this last integral appears as entry 4.231.2.