## PROOF OF FORMULA 4.224 .8

$$
\int_{0}^{\pi / 2} \ln ^{2} \cos x d x=\frac{\pi}{2}\left[\ln ^{2} 2+\frac{\pi^{2}}{12}\right]
$$

The change of variable $t=\pi / 2-x$ reduces this to entry 4.224.7.

