## PROOF OF FORMULA 3.249.6

$$
\int_{0}^{1}(1-\sqrt{x})^{p-1} d x=\frac{2}{p(p+1)}
$$

Let $y=1-\sqrt{x}$ to obtain

$$
\int_{0}^{1}(1-\sqrt{x})^{p-1} d x=-2 \int_{0}^{1} y^{p-1}(y-1) d y
$$

Each integral is elementary.

