

ENTRIES IN PART 2

$$4.231.5 \quad \int_0^{\infty} \frac{\ln x \, dx}{(x+a)^2} = \frac{\ln a}{a}$$

$$4.231.6 \quad \int_0^1 \frac{\ln x \, dx}{(1+x)^2} = -\ln 2$$

$$4.232.1 \quad \int_u^v \frac{\ln x \, dx}{(x+u)(x+v)} = \frac{\ln uv}{2(v-u)} \ln \left[\frac{(u+v)^2}{4uv} \right]$$

$$4.232.2 \quad \int_0^{\infty} \frac{\ln x \, dx}{(x+u)(x+v)} = \frac{\ln^2 v - \ln^2 u}{2(v-u)}$$