

invarianten prüfen

$$B(p, q) = B\left(\frac{q}{p}, \frac{p}{q}\right) \quad \forall p, q > 0$$

$$B(p, q) = \int_0^1 x^{p-1} (1-x)^{q-1} dx = -\int_0^1 (1-x)^{p-1} x^{q-1} dx = B\left(\frac{q}{p}, \frac{p}{q}\right)$$

3) Symmetrie in den Parametern

$$B(p, q) = \int_0^1 x^{p-1} (1-x)^{q-1} dx$$

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15.03.06

n.3. 47-48 Beispiel 5 Beispiel 5

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$$1-x = 1 - \frac{t}{1+t} = \frac{1+t-t}{1+t} = \frac{1}{1+t}$$

$$B(p, q) = \int_0^1 x^{p-1} (1-x)^{q-1} dx = \int_0^1 \left(\frac{t}{1+t}\right)^{p-1} \left(\frac{1}{1+t}\right)^{q-1} \frac{1}{(1+t)^2} dt$$

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