Delta function and its evolution



$$I = \int_{0}^{a} dz \frac{1}{(r-2)} f(z)$$

$$| \int_{0}^{a} \int_{0}^{a} dz \frac{1}{(r-2)} f(z) - \int_{0}^{a} \int_{0}^{a} dz \frac{1}{(r-2)} [f(z) - f(z)]$$

$$= \int_{0}^{a} dz \frac{1}{(r-2)} f(z)$$

$$= \int_{0}^{a} dz \frac{1}{(r-2)} [f(z) - f(z)] + \int_{0}^{a} dz \frac{1}{(r-2)} [f(z) - f(z)]$$

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$$= \int_{0}^{a} dz \frac{1}{(r-2)} f(z) + \ln \frac{1}{(r-2)} \frac{1}{a} f(z)$$

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$$= \int_{0}^{a} dz \frac{1}{(r-2)} f(z) f(z)$$

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