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Products and compositions with the Dirac delta function

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## Corrigendum

## **Products and compositions with the Dirac delta function** Raju C K 1982 J. Phys. A: Math. Gen. **15** 381-96

Equation (2.43) should read

$$f \cdot \delta^{(k)} \leq (-1)^k \sum_{i=0}^k (-1)^i \binom{k}{i} f^{(k-i)}(0) \delta^{(i)}$$

so that (2.44) reads

$$x^{-n} \cdot \delta^{(k)} \stackrel{*}{=} \sum_{i=0}^{k} \binom{k}{i} \frac{(n+k-1-i)!}{(n-1)!} x_{\omega}^{-n-k+i}(0) \delta^{(i)}.$$

Also, (2.16) and (2.29) should respectively read

$$f(\delta\delta') \stackrel{\star}{=} - [f(0)\delta'_{\omega}(0) + f'(0)\delta_{\omega}(0)]\delta + f(0)\delta_{\omega}(0)\delta'$$
$$PV \int \frac{g(x)}{x} dx = \lim_{\epsilon \to 0} \int_{|x| > \epsilon} \frac{g(x)}{x} dx.$$

In the last of (3.17), the exponent of  $z_+$  should be (i - 2mr - 2m - r)/(2m + 1).