$$(f + g) * h = h * (f + g) \qquad (annote h) * y,$$

$$(allows us) to consider, only one case, on they are equivalent.$$

$$h * (f + g) (x) = \int h (x - x') (f (x') + g(x')) dx'$$

$$= \int [h(x - x')] (f(x') + h(x - x') g(x')] dx'$$

$$= \int h(x - x') (f(x') + h(x - x') g(x')) dx'$$

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$$= \int h (x - x') (f(x') + g($$

Distubutivity

$$\begin{bmatrix} T_6(f) * g \end{bmatrix} x = \int_{R} T_6(f)(x-x) g'(x) dx'$$

$$= \int_{R} f(x-x'-6) g'(x) dx' = P = L$$

 $=\int_{a}^{b}\int_{a}^{b}\left(x-b-x'\right)g\left(x'\right)dx'=L$