

$$J\left(x+\left(\left(H_{n,d}(s)\odot A\right)x\right)^d;x\right)\equiv J\left(\xi+\left(A\xi\right)^d;\xi\right)\Big|_{\xi_j=x_js_j^d\left(\prod_{k=1}^ns_k\right)^{\frac{d}{d-1}},\,j=1,\dots,n}$$