

```

[> restart: with(inttrans): assume(K > 0, d > 0, x R 0):
[> phi_k :=  $\frac{Q}{d \cdot (k^2 + K^2)}$ :
[> simplify(invfourier(phi_k, k, x))

$$\frac{Q (\text{Heaviside}(\tilde{x}) e^{-K \tilde{x}} - e^{K \tilde{x}} \text{Heaviside}(\tilde{x}) + e^{K \tilde{x}})}{2 d \tilde{K}}$$

[>

```

(1)