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$$c(x) = \frac{3}{x-1} \quad d(x) = x + 1$$

$$(c \circ d)(x) = c(d(x))$$

$$(c \circ d)(x) = \frac{3}{(x+1)-1}$$

$$(c \circ d)(x) = \frac{3}{x}$$

$$Dm(c \circ d) =]\infty; 0[\quad \& \quad]0; \infty[$$

$$(d \circ c)(x) = d(c(x))$$

$$(d \circ c)(x) = \left(\frac{3}{x-1}\right) + 1$$

$$(d \circ c)(x) = \frac{x + (x-1) \cdot 1}{x-1}$$

$$(d \circ c)(x) = \frac{x+2}{x-1}$$

$$Dm(d \circ c) =]\infty; 1[\quad \& \quad]1; \infty[$$