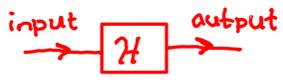
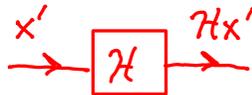


Example 2.7. For a system operator \mathcal{H} , function x' , and real number t , the expression $\mathcal{H}x'(t)$ denotes result of taking the function y produced as the output of the system \mathcal{H} when the input is the function x' and then evaluating y at t . ■

\mathcal{H} is a system. 

$\mathcal{H}x'$ is the output of the system \mathcal{H} when the input is x' .
 function function



Since $\mathcal{H}x'$ is a function, we can evaluate it at a point such as t .

$\mathcal{H}x'(t)$
 function point at which function is evaluated