

$x(t)$



```
graph LR; X["x(t)"] --> Box["y = f(x)"]; Box --> Y["y(t)"]
```

A block diagram showing a system. On the left, the input signal  $x(t)$  is written in a cursive font. A thick black arrow points from  $x(t)$  to a rectangular box. Inside the box, the equation  $y = f(x)$  is written in a cursive font. Another thick black arrow points from the box to the output signal  $y(t)$ , which is also written in a cursive font on the right.

$$y = f(x)$$

$y(t)$