## **BASIC SIGNALS**

## **Unit Impulse signal:**

$$\delta(t) = 1$$
 for t=0;

= 0 oherwise



Figure 1.9

## Unit step signal:

$$U(n) = 1 \text{ for } t > 0;$$

= 0 for t < 0;

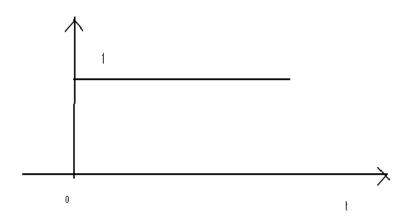


Figure 1.10

**Signum function:** 

1 for 
$$t > 0$$

$$Sgn(t) =$$

## -1 for t< 0

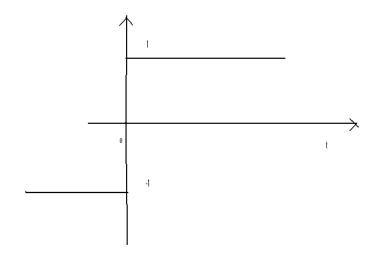


Figure 1.11

**Exponential increasing function:** 

$$X(t) = e^t$$

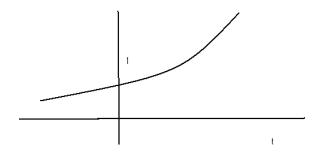


Figure 1.12

**Exponential decreasing function:** 

$$X(t) = e^{-t}$$

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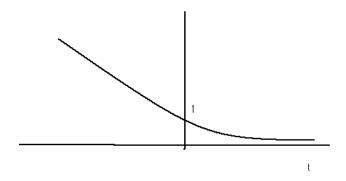


Figure 1.13