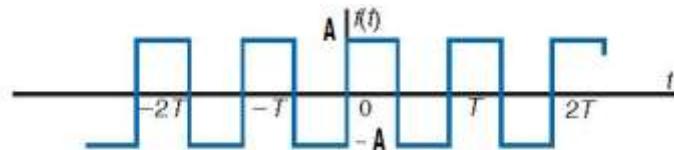
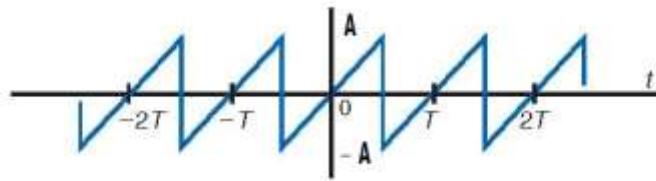
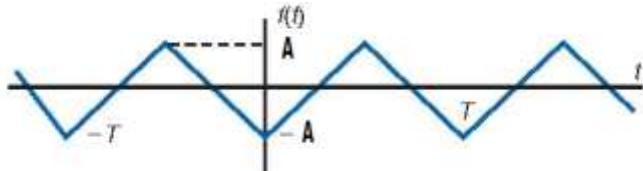


**Square Wave:**

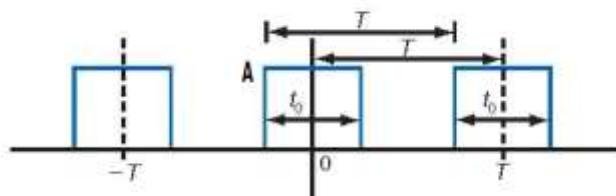
$$f(t) = \frac{4A}{\pi} \left[ \sin(2\pi ft) + \frac{1}{3} \sin(2\pi(3f)t) + \frac{1}{5} \sin(2\pi(5f)t) + \dots \right]$$

**Sawtooth Wave:**

$$f(t) = \frac{2A}{\pi} \left[ \sin(2\pi ft) - \frac{1}{2} \sin(2\pi(2f)t) + \frac{1}{3} \sin(2\pi(3f)t) - \frac{1}{4} \sin(2\pi(4f)t) + \dots \right]$$

**Triangle Wave:**

$$f(t) = \frac{8A}{\pi^2} \left[ \cos(2\pi ft) + \frac{1}{9} \cos(2\pi(3f)t) + \frac{1}{25} \cos(2\pi(5f)t) + \dots \right]$$

**Pulse Train:**

$$f(t) = Aft_0 + 2Aft_0 \left[ \frac{\sin(x)}{x} \cos(x) + \frac{\sin(2x)}{2x} \cos(2x) + \frac{\sin(3x)}{3x} \cos(3x) + \dots \right]$$

where  $x = \pi ft_0$