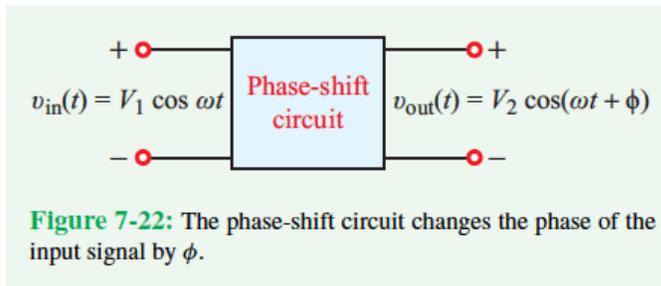Describe the function of a phase-shift circuit in terms of time delay or time advance of the waveform.

Figure 7-22: The phase-shift circuit changes the phase of the input signal by ϕ.

The phase shift circuit shifts the phase by ϕ, corresponding to a time shift of

$$\Delta t = \left(\frac{\phi}{2\pi}\right) T$$

where T is the period.