

Figure 14. Gait Cycle curves and Sine Curves



Figure 15. Legs' gait cycle - Pendulum

# Figure 16. Kangaroo's hopping

A kangaroo hops with two legs that move simultaneously. Its hopping has two phases., i.e., the stance phase and swing phase. Both legs' moves are synchronized.

### Stance Phase

1. Initial contact Both feet touch ground.

2. Loading response

Forward movement of whole body, while

both feet keep touching ground and both legs are at stance phase Cyclical running (1)



## Cyclical running (2)



## Cyclical running (3)



### Cyclical running (4)



Swing Phase
Both feet leave ground.
and both legs swing simultaneously.

Cyclical running (5)





