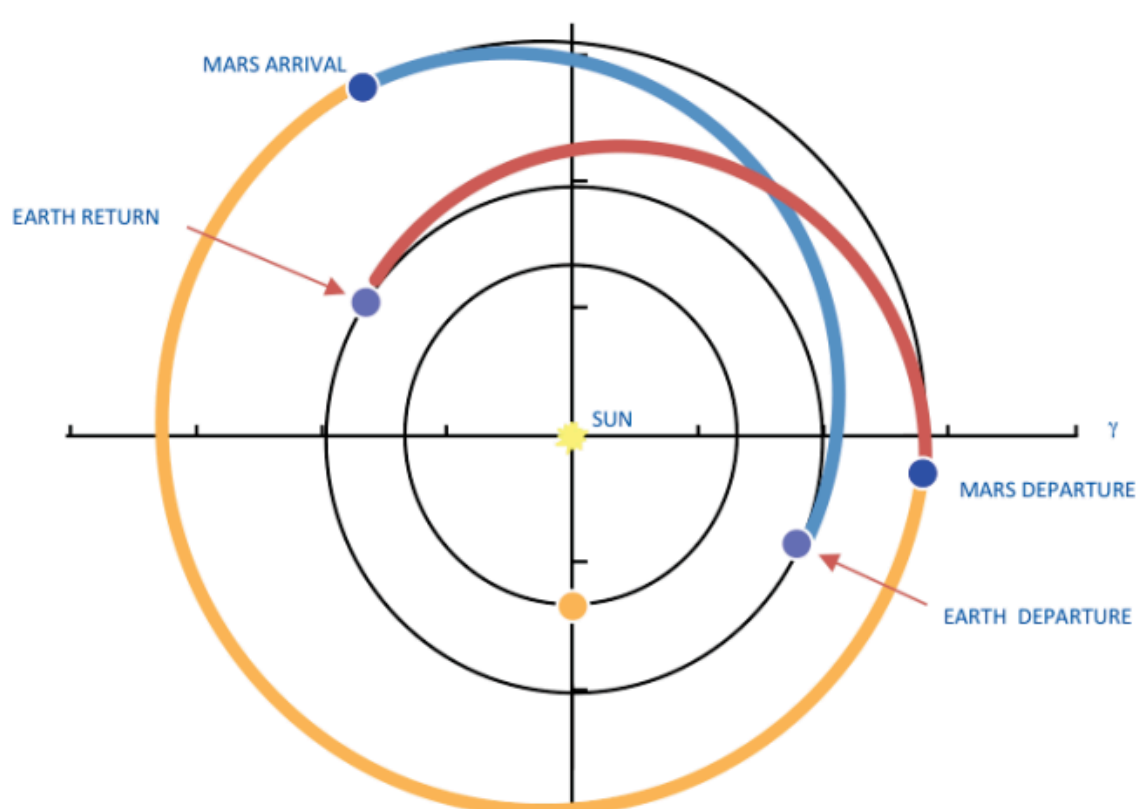


Given the two-year cycle between Mars launch windows, we must decide between a **conjunction class** and an **opposition class** mission for a manned mission to Mars.

## Conjunction Class

 **Mars Inspo**  
Daring the Red Planet



### Pros:

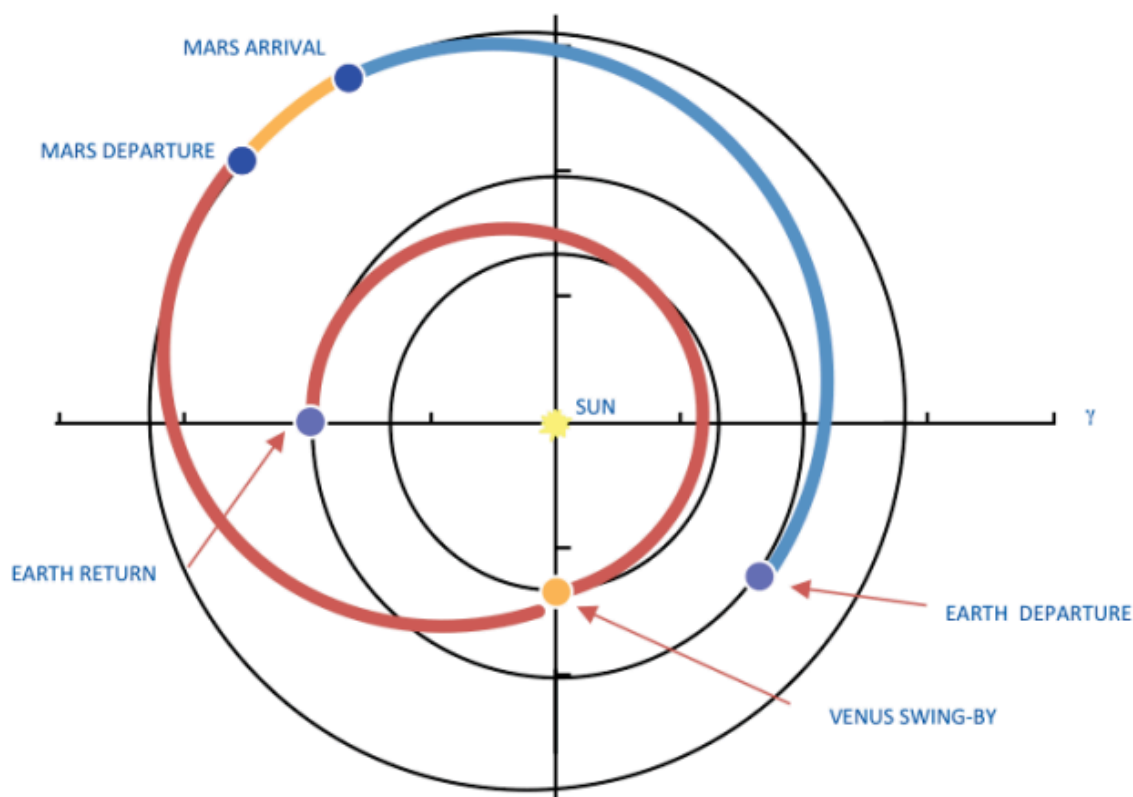
- **Shortest Transit Time:** Less time in space.
- **Lower Fuel Use:** Shorter distance reduces fuel needs.

### Cons:

- **Longer Stay on Mars:** Extended stay on Mars (18 months).
- **Higher Resource Demand:** Increased need for supplies.

## Opposition Class

 **Mars Inspo**  
Daring the Red Planet



### Pros:

- **Shorter Stay on Mars:** Brief stay (1-3 months).
- **Shorter Mission Duration:** 500 days instead of 1000 days.

### Cons:

- **Longer Transit:** Extended journey to Mars (6-9 months).
- **Higher Fuel Costs:** Requires more fuel for longer distance.