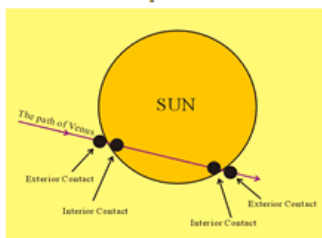


# Observing Certificate Program Parallax Activity

## Parallax Method 2 - Distance using Relative Orbit Speed

### Assumptions:

- Diameter of the Sun = 0.5244 degrees
- Diameter of Venus = 0.0163 degrees
- Orbit speed of Earth = 29.8 km/s
- Orbit speed of Venus = 35.0 km/s
- Earth-Venus distance in Astronomical Units = 0.28



The four Contacts for a transit of Venus. From left to right we have Contacts 1, 2, 3 and 4.

Enter your observations for the contact times of the transit below.

### Enter observed contact times:

Enter 1st contact:

Enter 2nd contact:

Enter 3rd contact:

Enter 4th contact:

### Duration between contacts:

Contacts 2 & 1:

Contacts 3 & 2:

Contacts 3 & 1:

Contacts 4 & 3:

Contacts 4 & 2:

Contacts 4 & 1:

### Speed of Venus:

Contacts 2 & 1:

Contacts 3 & 2:

Contacts 3 & 1:

Contacts 4 & 3:

Contacts 4 & 2:

Contacts 4 & 1:

### Individual Astronomical Unit

#### Estimates:

Contacts 2 & 1:

Contacts 3 & 2:

Contacts 3 & 1:

Contacts 4 & 3:

Contacts 4 & 2:

Contacts 4 & 1:

### Average Astronomical Unit: