

August 2022  
IOAA  
Georgia

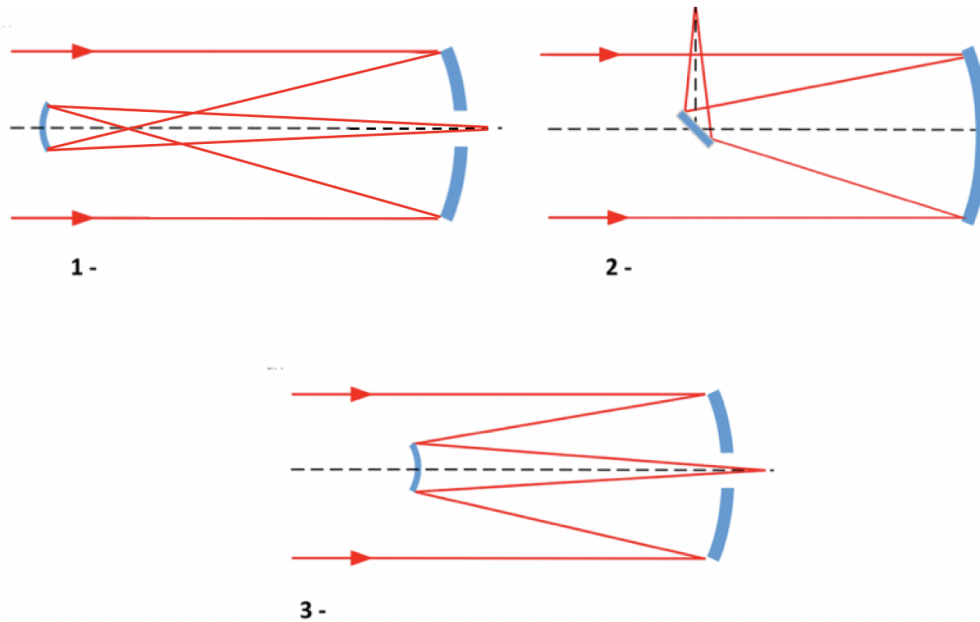
# Daytime Observation

Cover Sheet

05  
Points]

[9

The image below shows schematic representations of three different types



of reflectors.

For each one, choose the correct name from the list below. (3 points each)

(A) Newtonian (B) Pfund (C) Gregorian (D) Herschelian (E) Keplerian (F) Coudé (G) Galilean (H) Cassegrain

1.	_____
2.	_____
3.	_____



O6

[21 Points]

The equatorial constellations are listed below. Fill in the missing ones in the correct order. Use the IAU codes or official names accepted by the IAU.

1. Serpens (Ser) 2. Ophiuchus (Oph) 3. \_\_\_\_\_ 4. Aquarius (Aqr)  
5. Pisces (Psc). 6. Cetus (Cet) 7. \_\_\_\_\_ 8. \_\_\_\_\_  
9. \_\_\_\_\_ 10. Monoceros (Mon) 11. Canis  
Minor (CMi) 12. \_\_\_\_\_ 13. \_\_\_\_\_ 14. \_\_\_\_\_  
15. Virgo (Vir)

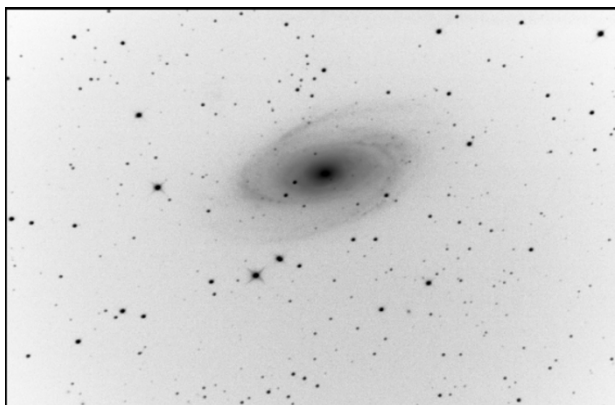
Which of these 15 constellations are also on the ecliptic? If you give more than the required number of constellations, only the first ones you write (in order) will be considered.

O7

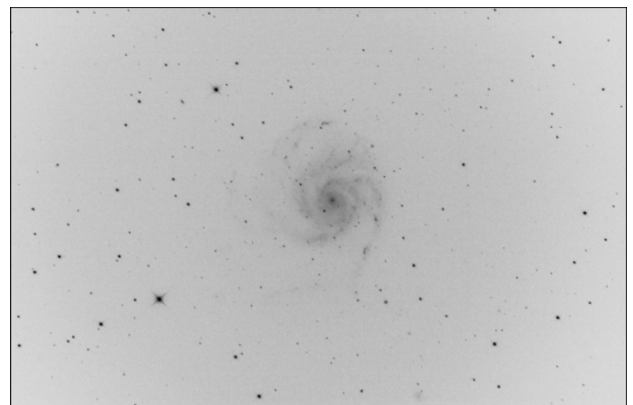
[20

Points]

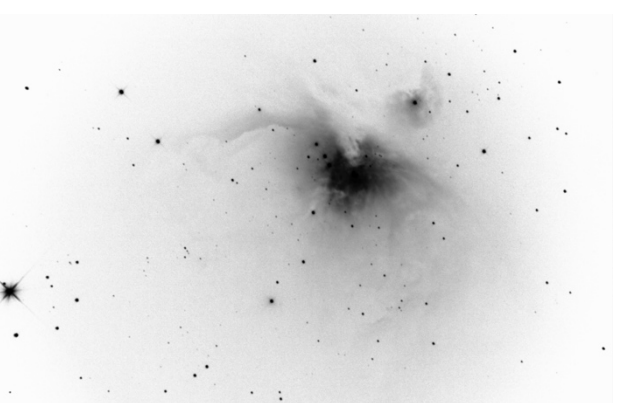
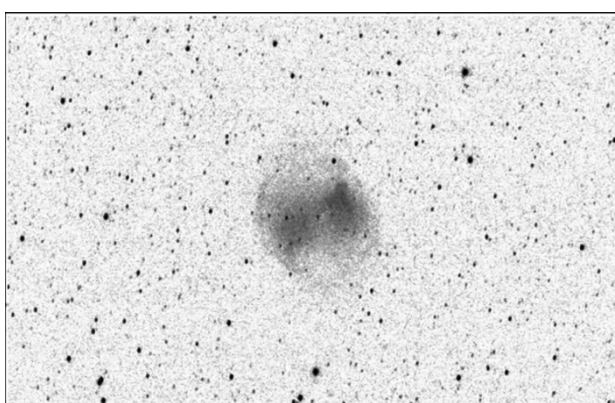
Write the numbers in Messier catalogue, and the constellations (IAU code) of the given Messier Objects (4 points for each object).



I

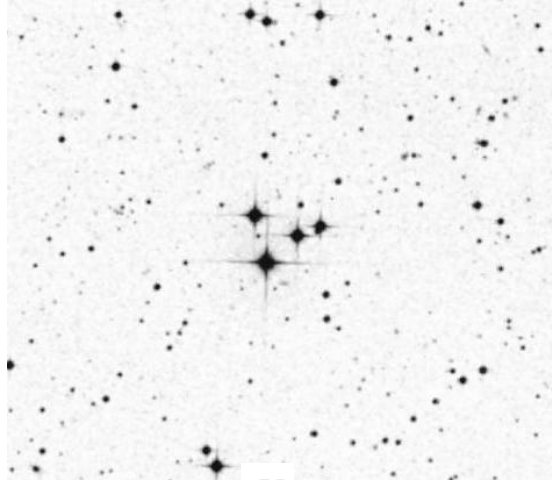


II





Student Code



V

- I \_\_\_\_\_
- II \_\_\_\_\_
- III \_\_\_\_\_
- IV \_\_\_\_\_
- V \_\_\_\_\_



Student Code

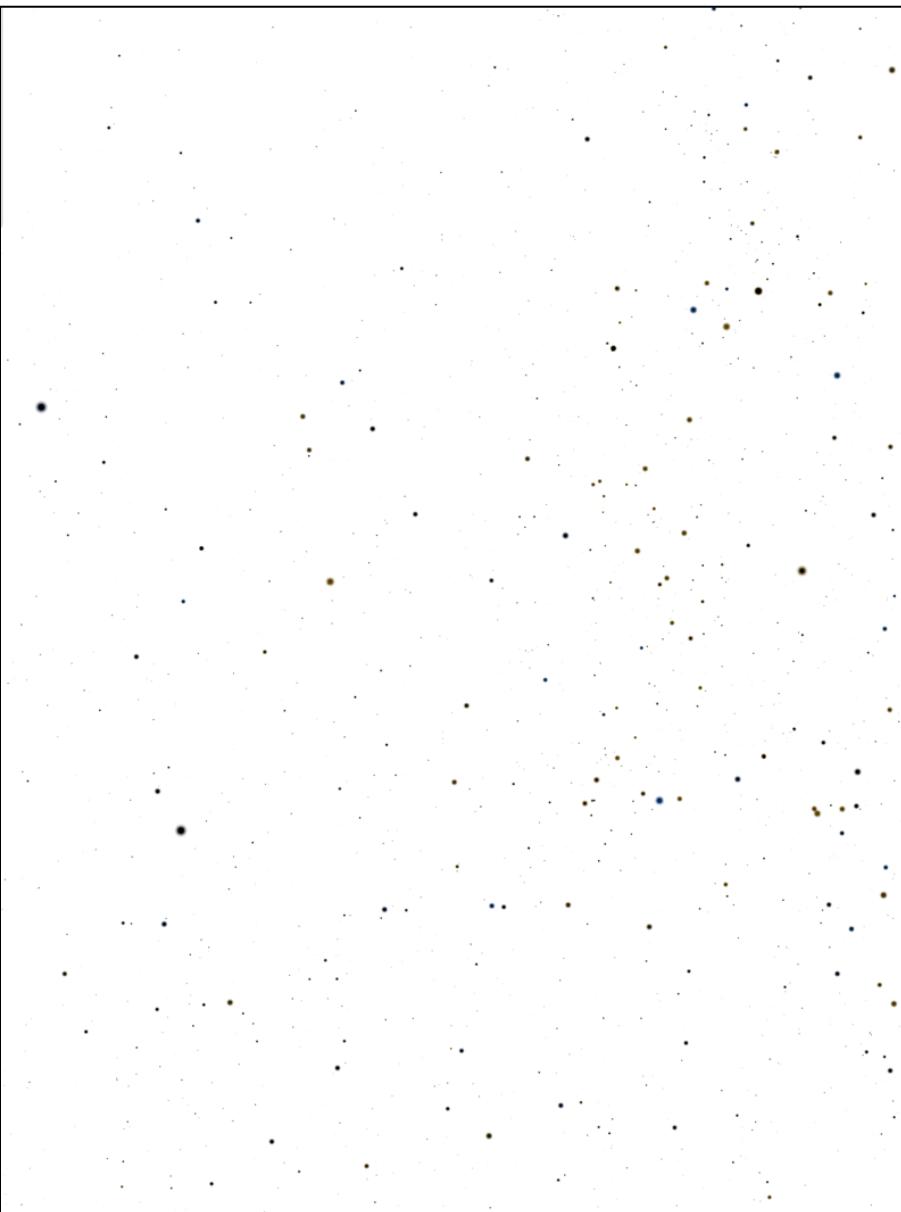
O8  
Points]

[30

There are three additional and two missing stars on the figure given below. Circle them and number them as 1, 2, 3 (additional stars), 4, 5 and 6 (missing stars).

O9

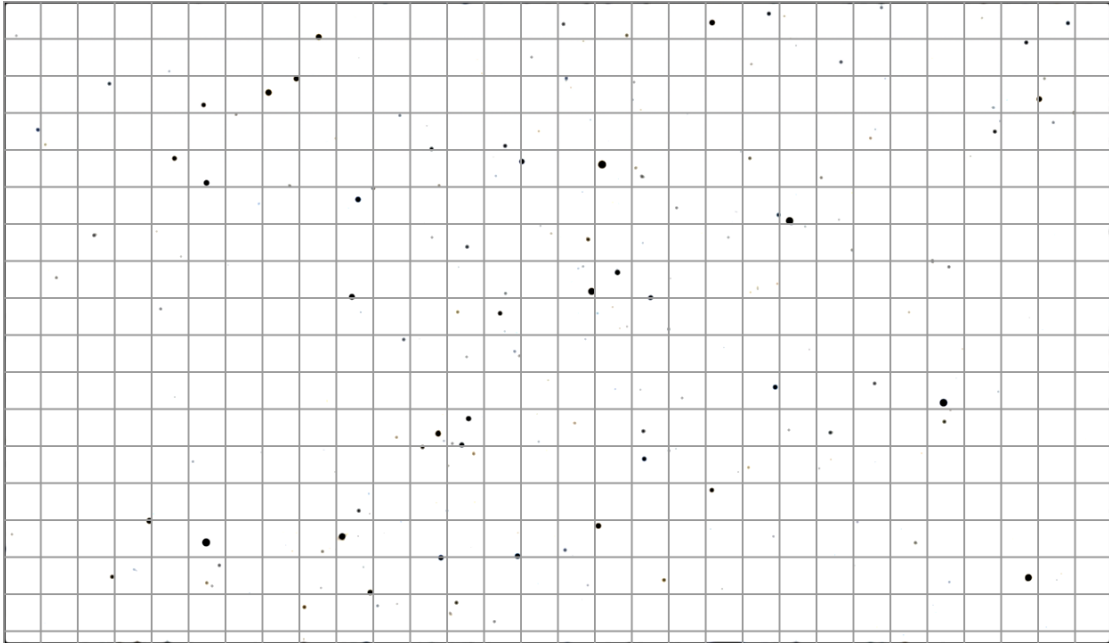
[5 Points]





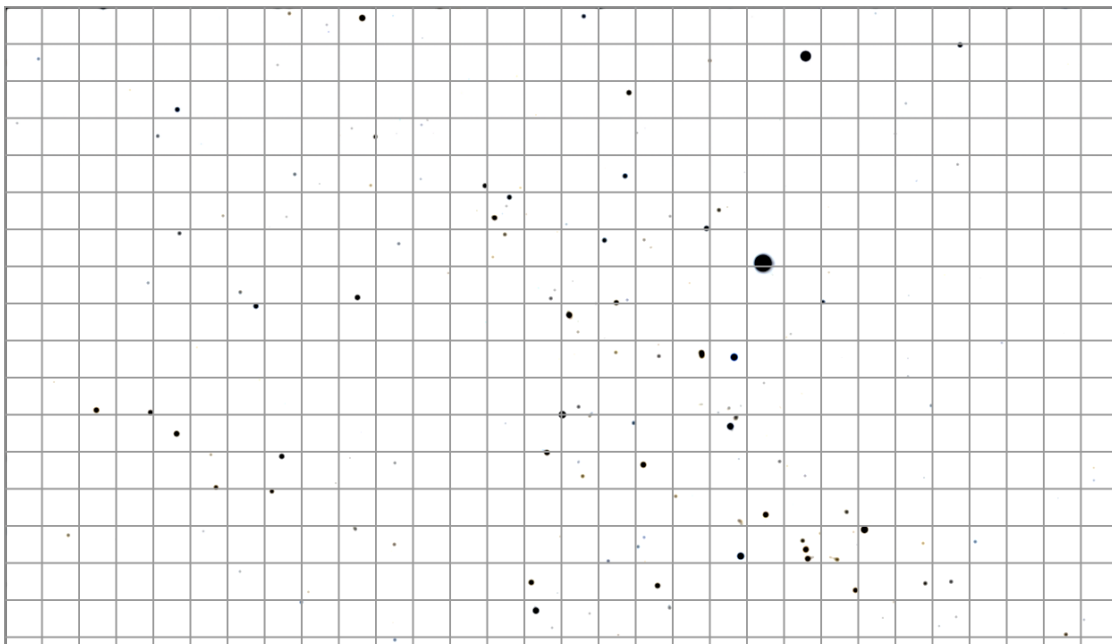
Student Code

Calculate the time interval between the two figures given below if the first figure occurs earlier than the second one, and the time interval is



less than one sidereal day

Initial



Final

CCV