

f) The southern image will show the variation first, since the light from the AGN that produces it has to travel longer far to reach the observer.

(IMAGE 2)

4/4

g) 1 parsec = 3.26 light years
∴ 100 parsec = 100×3.26 light years
= 326 light years

Too long for ^{those} variations in the two images to be correlated)

Time delay between variations in northern and southern images = 326 years.

330

Not 35.5.

3/3

18
21