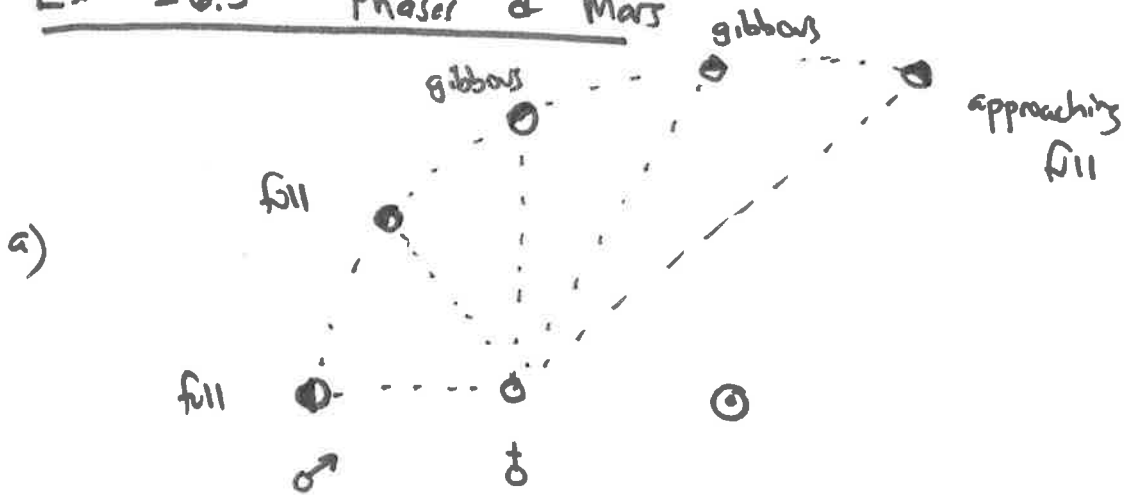
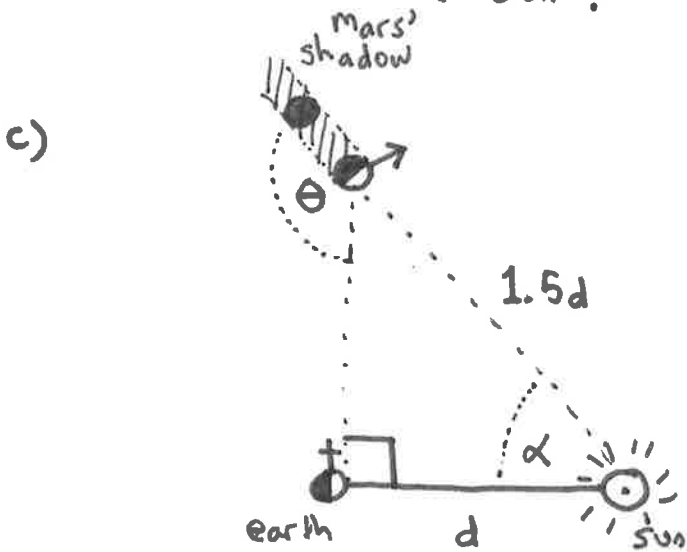


Ex 26.3 Phases of Mars



b) Mars is always either full or gibbous... never half or crescent. This is unlike Venus, whereas Venus orbits inside Earth's orbit, Mars orbits outside Earth's orbit.



$$\cos \alpha = \frac{d}{1.5d} = \frac{2}{3}$$

$$\alpha = 48.2^\circ$$

$$\theta = 180 - \alpha$$

$$\theta = 131.8^\circ$$