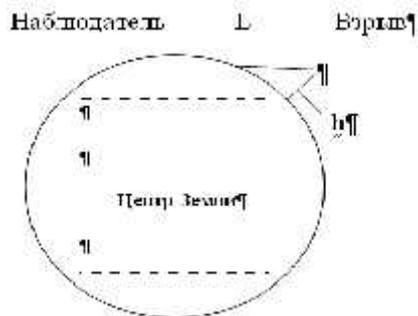


1:

$L, R, R+h$ -



$$L^2 + R^2 = (R + h)^2, \quad 2Rh + h^2 = L^2$$

$$R = 6371$$

$$L = 350$$

h.

$$h \ll R,$$

$$2Rh \approx L^2.$$

$$h = 9,6$$

2:

3:

4:

$$100/6 = 16,7$$

m,

$$2,512^m = 16,7, \quad m = 3.$$

$$m = 2,5 \cdot \lg 16,7 = 3,06 \approx 3.$$

$$m_1 = m_0 - \Delta m \approx -12,6 - 3 = -15,6^m.$$

5:

() (m).

$$MV + mv = 0$$

