

(4) : Given, $r_1 = 4$ cm, $r_2 = 2$ cm

Radius of curvature of common surface, $r = \frac{r_1 r_2}{r_1 - r_2}$

$$\text{So, } r = \frac{4 \times 2}{4 - 2} = \frac{8}{2} = 4 \text{ cm}$$