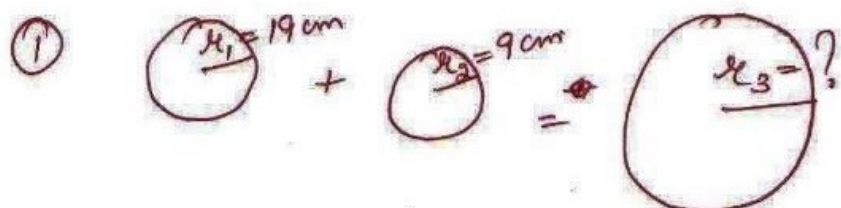


ex 12.1



circum. of reqd  $\odot$  = circum. of 2 given circles

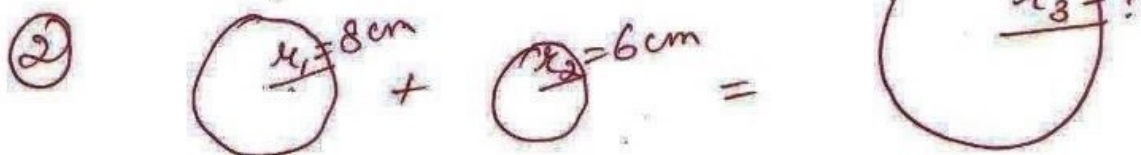
$$2\pi r_3 = 2\pi r_1 + 2\pi r_2$$

$$2\pi r_3 = 2\pi (r_1 + r_2)$$

$$= 19 + 9$$

$$= 28$$

reqd radius = 28 cm



area of reqd  $\odot$  = area of 2 given  $\odot$ s

$$\pi r_3^2 = \pi r_1^2 + \pi r_2^2$$

$$\pi r_3^2 = \pi (8^2 + 6^2)$$

$$= 64 + 36$$

$$r_3 = \sqrt{100}$$

$$= 10 \text{ cm}$$

$\therefore$  reqd. radius = 10 cm