















Five concentric circles are expanding in such a way Let r, and r2 be the radius of circle at any time t.

Given, Given, r, = 24 (m, r₂ = 30 (m. $\frac{dr_{1}}{d(t)} = 10 \text{ cm/sec}, \quad \frac{dr_{2}}{d(t)} = 7 \text{ cm/sec}.$ $\frac{d(t)}{d(t)}$ $\frac{dr_{1}}{d(t)} = \frac{2}{1} r_{1}^{2} - 7 r_{1}^{2}$ $= 7 (r_{1}^{2} - r_{1}^{2})$ Diff. b.s. W. r. to 't' wo get,

d(A) = T[2r. dr2 - 2r, dr,

d(t) d(t) d(t) = TI [2.30.7 - 2 x 24 x 10] - :-60 Ti cm²/sec

negative represents the area is decreasing Distribution of the Control







