





facm pem: 14 = C => C=14 & Omben: racm pen: y= 14 D ny'= 2 Van2 + y2+g y = 12 => 2 1/2 = 2 Va 15 92 + g2 + g  $xdy = dx(2\sqrt{15x^2+g^2}+g)$  u = x = y = ux = y = udx + xdux(u/x+x/4)=(27/15x2+422+4x)/x  $\mathcal{X}(u d x + x d u) = (2 \sqrt{15 + u^2} + u) x d x$  $u \times \lambda \times + x^2 \lambda u = 2\sqrt{15 + u^2} (x dx) + u x dx$ x2 du = 2 \ 15+42 (x dre) | x2 V 15+42  $\frac{1}{\sqrt{u^2+15}} = \frac{24x}{x} = \int \frac{4u}{\sqrt{u^2+15}} = \int \frac{24x}{x}$ M Hu2+15+4 = 2 M | 2 | + Charles  $\sqrt{u^2+15} + u = e^{\frac{c}{2}} \times \frac{2}{2}$   $\sqrt{\frac{4^2}{2^2}+15} + \frac{4}{2} = Cx^2$  Omken