

 $\frac{3}{2}$ a $\frac{3}{2}$ (onverting to cartesian by using $\frac{3}{2}$ $\frac{3}{2}$

> n - asin2t, y - asin3t,

Converting to Constentian.

Sint - x : Cost - RSFR JI-sint

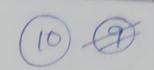
Cost - JI-x - Jax

a. Jax

y = a. Sin2t. Sint. 1

y = x x Jx Jan Jan Jan Jan Jan X Jx Jan X Jan X Jan X X (a) years

(a-x)y2 = x3 (ax)





(3)
$$x^{2/3} + y^{2/3} - a^{2/3}$$

$$x = a \cos^3 t ; \quad y = a \sin^3 t \quad \text{(Paramelar)}$$

$$x^2 - \cos t ; \quad y^2 - \sin^6 t$$

$$a^2 - \cos t ; \quad a^2 - \cos t$$

$$yaking \quad \text{cube noot} \quad \text{4} \quad \text{adding}$$

$$x^{1/3} + y^{1/3} = a$$

$$x^{2}+y^{2} = (1-t^{2})^{2}+4t^{2} = 1+t^{4}-2t^{2}+4t^{2}$$

$$= (1+t^{2})^{2} = (1+t^{2})^{2}$$

$$= (1+t^{2})^{2} = 1$$

$$= (1+t^{2})^{2} = 1$$

DATE

(8) $x^2y^2 - a^2(y^2-x^2)$

(10) $x = t^2$; $y = t - \frac{1}{3}t^3$ $y = t(1 - \frac{1}{3}t^2)$ $y^2 = t^2(1 - \frac{1}{3}t^2)^2$ $y^2 = x \cdot (1 - \frac{1}{3}x)^2$

This curve will form a loop between (0,0) & (3,0)



(6)
$$x^3 + y^3 - 3axy$$
.

 $x - 3at$
 $y - 3at^2$
 $y + y^3 - 3at^2$
 $y - 3at^2$

$$7^{3} + y^{3} = 27a^{3}t^{3} + 27a^{3}t^{6}$$

$$(1+t^{3})^{3} + (1+t^{3})^{3}$$

$$x^{3} + y^{3} = 27a^{3}t^{3} (1+t^{3}).$$

$$x^3 + y^3 = 27a^3 + 3$$

(7)
$$y^2(a+x) - x^2(a-x)$$

or $(x^2+y^2)x - a(x^2-y^2) = 0$.

