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Objective: Every point (XY) & CQ) of finite order has integer coordinates:

Stratezy: For each prime p, p is not a factor of the denominator of x or y.

C(p") = { (xy) & C(Q): o-d x < -2v and }

C(pv) is an additive group. y= = x= ==

t= xy and S= y . (4,5) plane.

(777)

2 = - 3 + 1.

$$R_{p} = \left\{ x \in \mathbb{Q} : \text{ ord } x \geq 0 \right\}$$

$$V_{n} = \frac{1}{2} \in \mathbb{R}_{p} \Rightarrow x \pm \beta_{p} = \mathbb{R}_{p}.$$

$$\left(x_{j} + 1\right) \in C(p^{v})$$

$$x = \frac{m}{np^{k+1}}, \quad y = \frac{n}{np^{k+1}}, \quad y = \frac{n}$$

$$\alpha = \frac{\partial s}{\partial t}$$

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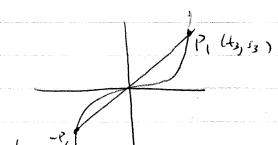
$$(\alpha t + \beta)^{3} = t^{3} + a(\alpha t + \beta)t^{2} + b(\alpha t + \beta)^{2}t$$

 $+ c(\alpha t + \beta)^{3}$

$$0 = (1 + \alpha x + 1)x^{2} + (\alpha \beta + 1) + (\alpha$$

$$t_1 + t_2 + t_3 = -\frac{\left(\alpha \beta + 2 \lambda 2 \beta + 3 \cos^2 \beta\right)}{\left(1 + \alpha 2 + 3 \cos^2 + \cos^2 \beta\right)}$$

$$P_1 \times P_2 = (t_3, s_3)$$
 $P_1 + P_2 = (-t_3, s_3) \in C(p^{\vee}).$



 $|x| = p^{-ordx}$