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4. (10 points)

(a) Answer:

Table 1: Addition table for $E(\mathbb{F}_5)=\{\mathcal{O},(1,2),(1,3),(4,0)\}.$

+	0	(1, 2)	(1, 3)	(4, 0)
0	0	(1, 2)	(1, 3)	(4, 0)
(1, 2)	(1, 2)	(4, 0)	0	(1, 3)
(1, 3)	(1, 3)	0	(4, 0)	(1, 2)
(4, 0)	(4, 0)	(1, 3)	(1, 2)	0

(b) **Answer:**

Table 2: Addition table for $E(\mathbb{F}_7) = \{\mathcal{O}, (2,1), (2,6), (3,1), (3,6), (6,0)\}.$

+	0	(2, 1)	(2, 6)	(3, 1)	(3, 6)	(6, 0)
0	0	(2, 1)	(2, 6)	(3, 1)	(3, 6)	(6, 0)
(2, 1)	(2, 1)	(3, 6)	0	(2, 6)	(6, 0)	(3, 1)
(2, 6)	(2, 6)	0	(3, 1)	(6, 0)	(2, 1)	(3, 6)
(3, 1)	(3, 1)	(2, 6)	(6, 0)	(3, 6)	0	(2, 1)
(3, 6)	(3, 6)	(6, 0)	(2, 1)	0	(3, 1)	(2, 6)
(6, 0)	(6, 0)	(3, 1)	(3, 6)	(2, 1)	(2, 6)	0