Задания к расчетной работе № 4 по курсу "Надежная передача данных"

15 декабря 2019 г.

Задан $(31, 21)$ код Рида-Соломона в широком смысле над полем $GF(2^5)$ с указанным в задании параметром b. Необходимо продекодировать вектор y и указать в ответе номера ошибочных позиций и значения ошибок. Нумерация позиций ведется с 0, значения указывать в виде степени примитивного элемента α, удовлетворяющего $\alpha^5 + \alpha^2 + 1 = 0$.

Пример оформления ответа:

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- Вариант 0
- Ошибки в позициях 0,5,10,15.
- Значения ошибок $\alpha^1, \alpha^{10}, \alpha^{20}, \alpha^{30}$

До 29.12 за правильно выполненное задание начисляются 10 баллов. Далее до 7.01 за правильно выполненное задание начисляются 5 баллов. После этой даты ответы не принимаются. Решения присылать преподавателю, ведущему практические занятия, с темой письма CodingTask4.

Номер варианта указан в журнале курса.

1. $b = 0, y = (\alpha^7, \alpha^{25}, \alpha^{10}, \alpha^{26}, \alpha^{13}, \alpha^1, \alpha^{12}, \alpha^4, \alpha^2, \alpha^{26}, \alpha^{13}, \alpha^4, \alpha^{20}, \alpha^6, \alpha^{13}, \alpha^{18}, \alpha^{30}, \alpha^6, \alpha^6, 0, \alpha^{29}, \alpha^7, \alpha^7, \alpha^{23}, \alpha^{20}, \alpha^{27}, \alpha^{22}, \alpha^{20}, \alpha^{17}, \alpha^{27}, \alpha^{30})$
2. $b = 0, y = (\alpha^3, \alpha^4, \alpha^{29}, \alpha^{22}, \alpha^{26}, \alpha^{22}, \alpha^{29}, \alpha^6, \alpha^{18}, \alpha^{18}, \alpha^{16}, \alpha^4, \alpha^{11}, \alpha^{14}, \alpha^{10}, \alpha^{25}, \alpha^{20}, \alpha^4, \alpha^{25}, \alpha^{19}, \alpha^{16}, \alpha^{27}, \alpha^2, \alpha^0, \alpha^{22}, \alpha^{30}, \alpha^{30}, \alpha^{16}, \alpha^{15}, \alpha^{11}, \alpha^{17})$
3. $b = 0, y = (\alpha^3, \alpha^{15}, \alpha^7, \alpha^3, \alpha^0, \alpha^{14}, \alpha^{23}, 0, \alpha^{28}, \alpha^{18}, \alpha^{14}, \alpha^{15}, \alpha^{17}, \alpha^{27}, \alpha^{29}, \alpha^{17}, \alpha^{26}, \alpha^{26}, \alpha^{17}, \alpha^2, \alpha^{25}, \alpha^2, \alpha^5, \alpha^9, \alpha^9, \alpha^{15}, \alpha^{29}, \alpha^{14}, \alpha^{24}, \alpha^7, \alpha^8)$
4. $b = 0, y = (\alpha^8, \alpha^0, \alpha^1, \alpha^{26}, \alpha^7, \alpha^{22}, \alpha^{29}, \alpha^{13}, \alpha^{15}, \alpha^9, \alpha^{23}, \alpha^5, \alpha^{18}, \alpha^{15}, \alpha^{14}, \alpha^1, \alpha^{15}, \alpha^{13}, \alpha^6, \alpha^{20}, \alpha^{17}, \alpha^8, \alpha^{20}, \alpha^3, \alpha^{24}, \alpha^{30}, \alpha^{14}, \alpha^{20}, \alpha^{18}, \alpha^{29}, \alpha^{25})$
5. $b = 0, y = (\alpha^{18}, \alpha^{13}, \alpha^{30}, \alpha^{29}, \alpha^1, \alpha^{25}, \alpha^{22}, \alpha^{26}, \alpha^0, \alpha^{22}, \alpha^{12}, \alpha^{16}, \alpha^{27}, 0, \alpha^{27}, \alpha^{22}, \alpha^{17}, 0, \alpha^{15}, \alpha^7, \alpha^{13}, 0, \alpha^{10}, \alpha^8, \alpha^{30}, \alpha^{16}, \alpha^{24}, \alpha^0, \alpha^{11}, \alpha^{22}, \alpha^{28})$
6. $b = 1, y = (\alpha^7, \alpha^{23}, \alpha^5, \alpha^3, \alpha^4, \alpha^{20}, \alpha^{13}, \alpha^0, \alpha^{27}, \alpha^{10}, \alpha^{18}, \alpha^{16}, \alpha^{10}, \alpha^{25}, \alpha^{10}, \alpha^{11}, \alpha^{13}, \alpha^{18}, \alpha^4, 0, \alpha^3, \alpha^{17}, \alpha^5, \alpha^{10}, \alpha^{30}, \alpha^{27}, \alpha^0, \alpha^1, 0, 0, \alpha^{24})$
7. $b = 1, y = (\alpha^{12}, \alpha^{21}, \alpha^{12}, \alpha^{18}, \alpha^{26}, \alpha^7, \alpha^{13}, \alpha^{30}, \alpha^{19}, \alpha^{10}, \alpha^7, \alpha^{13}, \alpha^0, \alpha^{17}, \alpha^{23}, \alpha^{15}, \alpha^{11}, \alpha^{28}, \alpha^{17}, \alpha^{22}, \alpha^{16}, \alpha^7, \alpha^{24}, \alpha^{28}, 0, \alpha^{26}, \alpha^{26}, \alpha^{30}, \alpha^6, \alpha^{30}, \alpha^{25})$
8. $b = 1, y = (\alpha^{15}, \alpha^{27}, \alpha^{21}, \alpha^{26}, \alpha^1, \alpha^0, 0, \alpha^1, \alpha^6, \alpha^{21}, \alpha^{15}, \alpha^{11}, \alpha^7, \alpha^8, \alpha^{14}, \alpha^{14}, \alpha^5, \alpha^{18}, \alpha^{11}, \alpha^{22}, \alpha^{20}, \alpha^{25}, \alpha^7, \alpha^{27}, \alpha^{11}, \alpha^{11}, \alpha^{28}, \alpha^3, \alpha^{25}, \alpha^{11}, \alpha^{11})$
9. $b = 1, y = (\alpha^{16}, \alpha^{11}, \alpha^{23}, \alpha^{26}, \alpha^{19}, \alpha^4, \alpha^{23}, \alpha^2, \alpha^{12}, \alpha^{13}, \alpha^{16}, \alpha^{15}, \alpha^{22}, \alpha^{14}, \alpha^{25}, \alpha^{13}, \alpha^7, \alpha^{11}, 0, \alpha^{16}, \alpha^{16}, \alpha^{24}, \alpha^{20}, \alpha^{29}, \alpha^7, \alpha^{12}, \alpha^{20}, \alpha^4, \alpha^{27}, \alpha^{17}, \alpha^{15})$
10. $b = 1, y = (\alpha^5, \alpha^{30}, \alpha^{15}, \alpha^0, \alpha^{30}, \alpha^{14}, \alpha^{23}, \alpha^7, \alpha^6, \alpha^0, \alpha^{12}, \alpha^{17}, \alpha^7, \alpha^{13}, \alpha^{30}, \alpha^{19}, \alpha^{15}, \alpha^{21}, \alpha^{15}, \alpha^{17}, \alpha^3, \alpha^{29}, \alpha^{13}, \alpha^{19}, \alpha^{17}, \alpha^{12}, \alpha^{11}, \alpha^{20}, \alpha^{15}, \alpha^{19}, \alpha^{29})$

11. $b = 2, y = (\alpha^{12}, \alpha^{17}, \alpha^{12}, \alpha^{22}, \alpha^{28}, \alpha^{1}, \alpha^{7}, \alpha^{25}, \alpha^{14}, \alpha^{6}, \alpha^{2}, \alpha^{9}, \alpha^{25}, \alpha^{24}, \alpha^{8}, \alpha^{29}, \alpha^{26}, \alpha^{24}, \alpha^{9}, \alpha^{17}, \alpha^{13}, \alpha^{6}, \alpha^{18}, \alpha^{5}, \alpha^{7}, \alpha^{29}, 0, \alpha^{22}, \alpha^{16}, \alpha^{19}, \alpha^{3})$

12. $b = 2, y = (\alpha^{12}, \alpha^{3}, \alpha^{20}, \alpha^{26}, \alpha^{25}, \alpha^{24}, \alpha^{29}, \alpha^{6}, \alpha^{22}, \alpha^{26}, \alpha^{20}, \alpha^{19}, \alpha^{10}, \alpha^{9}, \alpha^{21}, \alpha^{21}, \alpha^{24}, \alpha^{17}, \alpha^{24}, \alpha^{26}, \alpha^{15}, \alpha^{26}, \alpha^{14}, \alpha^{1}, \alpha^{29}, \alpha^{12}, \alpha^{24}, \alpha^{22}, \alpha^{9}, \alpha^{14}, \alpha^{4})$

13. $b = 2, y = (\alpha^{28}, \alpha^{4}, \alpha^{25}, \alpha^{21}, \alpha^{20}, \alpha^{10}, \alpha^{18}, 0, \alpha^{0}, \alpha^{9}, \alpha^{12}, \alpha^{23}, \alpha^{20}, \alpha^{13}, \alpha^{24}, \alpha^{19}, \alpha^{18}, \alpha^{8}, \alpha^{5}, \alpha^{16}, \alpha^{11}, \alpha^{11}, \alpha^{28}, \alpha^{13}, \alpha^{7}, \alpha^{0}, \alpha^{28}, \alpha^{4}, \alpha^{17}, \alpha^{3}, \alpha^{4})$

14. $b = 2, y = (\alpha^{19}, \alpha^{13}, \alpha^{28}, \alpha^{6}, \alpha^{4}, \alpha^{7}, \alpha^{23}, \alpha^{6}, \alpha^{29}, \alpha^{29}, \alpha^{20}, \alpha^{14}, \alpha^{5}, \alpha^{10}, \alpha^{22}, \alpha^{23}, \alpha^{16}, \alpha^{21}, \alpha^{1}, \alpha^{11}, \alpha^{11}, \alpha^{15}, \alpha^{2}, \alpha^{23}, \alpha^{12}, \alpha^{18}, \alpha^{9}, \alpha^{4}, \alpha^{7}, \alpha^{30}, \alpha^{28})$

15. $b = 2, y = (\alpha^{29}, \alpha^{18}, \alpha^{5}, \alpha^{20}, \alpha^{5}, \alpha^{25}, \alpha^{5}, \alpha^{27}, \alpha^{8}, \alpha^{10}, \alpha^{20}, \alpha^{17}, \alpha^{9}, \alpha^{15}, \alpha^{15}, \alpha^{19}, \alpha^{12}, \alpha^{6}, \alpha^{2}, \alpha^{15}, \alpha^{25}, \alpha^{1}, \alpha^{10}, \alpha^{24}, \alpha^{21}, \alpha^{0}, \alpha^{27}, \alpha^{2}, \alpha^{14}, \alpha^{7}, \alpha^{14})$

16. $b = 3, y = (\alpha^{23}, \alpha^{11}, \alpha^{26}, \alpha^{25}, \alpha^{22}, \alpha^{24}, \alpha^{21}, \alpha^{5}, \alpha^{25}, \alpha^{22}, \alpha^{21}, \alpha^{11}, \alpha^{6}, \alpha^{4}, \alpha^{3}, \alpha^{7}, \alpha^{3}, \alpha^{23}, \alpha^{16}, 0, \alpha^{30}, \alpha^{9}, \alpha^{6}, \alpha^{8}, \alpha^{18}, \alpha^{4}, \alpha^{15}, \alpha^{15}, \alpha^{27}, \alpha^{23}, \alpha^{10})$

17. $b = 3, y = (\alpha^{18}, \alpha^{11}, \alpha^{19}, \alpha^{2}, \alpha^{11}, \alpha^{5}, \alpha^{22}, \alpha^{11}, \alpha^{30}, \alpha^{27}, \alpha^{0}, \alpha^{14}, \alpha^{20}, 0, \alpha^{2}, \alpha^{9}, \alpha^{27}, \alpha^{1}, \alpha^{17}, \alpha^{29}, \alpha^{23}, \alpha^{30}, \alpha^{13}, \alpha^{17}, \alpha^{18}, \alpha^{5}, \alpha^{14}, \alpha^{8}, \alpha^{24}, \alpha^{4}, \alpha^{5})$

18. $b = 3, y = (\alpha^{0}, \alpha^{26}, \alpha^{5}, \alpha^{28}, \alpha^{5}, \alpha^{19}, \alpha^{8}, \alpha^{1}, \alpha^{19}, \alpha^{8}, \alpha^{15}, \alpha^{13}, \alpha^{10}, \alpha^{29}, \alpha^{13}, \alpha^{8}, \alpha^{14}, \alpha^{8}, \alpha^{0}, \alpha^{29}, \alpha^{8}, \alpha^{29}, \alpha^{22}, \alpha^{29}, \alpha^{5}, \alpha^{10}, \alpha^{24}, \alpha^{28}, \alpha^{2}, \alpha^{23}, \alpha^{2})$

19. $b = 3, y = (\alpha^{19}, \alpha^{12}, \alpha^{16}, \alpha^{24}, \alpha^{4}, \alpha^{11}, \alpha^{22}, \alpha^{11}, \alpha^{14}, \alpha^{18}, \alpha^{12}, 0, \alpha^{30}, \alpha^{30}, \alpha^{2}, \alpha^{25}, \alpha^{20}, \alpha^{8}, \alpha^{2}, \alpha^{13}, \alpha^{3}, \alpha^{0}, \alpha^{13}, \alpha^{6}, \alpha^{24}, \alpha^{9}, \alpha^{12}, \alpha^{17}, \alpha^{20}, \alpha^{25}, \alpha^{10})$

20. $b = 3, y = (\alpha^{23}, \alpha^{26}, \alpha^{1}, \alpha^{9}, \alpha^{14}, \alpha^{27}, \alpha^{5}, \alpha^{3}, \alpha^{30}, \alpha^{5}, \alpha^{25}, \alpha^{1}, \alpha^{3}, \alpha^{5}, \alpha^{5}, \alpha^{10}, \alpha^{21}, \alpha^{22}, \alpha^{0}, \alpha^{3}, \alpha^{28}, \alpha^{26}, \alpha^{18}, \alpha^{1}, 0, \alpha^{15}, \alpha^{2}, \alpha^{12}, \alpha^{25}, \alpha^{8}, \alpha^{14})$

21. $b = 4, y = (\alpha^{15}, \alpha^{9}, \alpha^{10}, \alpha^{18}, \alpha^{17}, \alpha^{7}, \alpha^{28}, \alpha^{15}, \alpha^{14}, \alpha^{17}, \alpha^{2}, \alpha^{24}, \alpha^{30}, \alpha^{13}, \alpha^{23}, \alpha^{28}, \alpha^{28}, \alpha^{7}, \alpha^{5}, \alpha^{21}, \alpha^{6}, \alpha^{10}, \alpha^{6}, \alpha^{0}, \alpha^{27}, \alpha^{19}, \alpha^{22}, \alpha^{12}, \alpha^{10}, \alpha^{12}, \alpha^{7})$

22. $b = 4, y = (\alpha^{1}, \alpha^{19}, \alpha^{18}, \alpha^{11}, \alpha^{24}, \alpha^{8}, \alpha^{1}, \alpha^{16}, \alpha^{3}, \alpha^{27}, \alpha^{11}, \alpha^{29}, \alpha^{24}, \alpha^{14}, \alpha^{21}, \alpha^{26}, \alpha^{3}, \alpha^{30}, \alpha^{25}, \alpha^{5}, \alpha^{24}, \alpha^{3}, \alpha^{13}, \alpha^{3}, \alpha^{14}, \alpha^{16}, \alpha^{27}, \alpha^{30}, \alpha^{24}, \alpha^{28}, \alpha^{28})$

23. $b = 4, y = (\alpha^{18}, \alpha^{16}, \alpha^{8}, \alpha^{4}, \alpha^{6}, \alpha^{13}, \alpha^{14}, \alpha^{13}, \alpha^{9}, \alpha^{1}, \alpha^{24}, \alpha^{19}, \alpha^{30}, \alpha^{27}, \alpha^{27}, \alpha^{11}, \alpha^{3}, \alpha^{18}, \alpha^{20}, \alpha^{26}, \alpha^{19}, \alpha^{10}, \alpha^{12}, \alpha^{18}, \alpha^{7}, \alpha^{30}, \alpha^{1}, \alpha^{22}, \alpha^{17}, \alpha^{3}, \alpha^{25})$

24. $b = 4, y = (\alpha^{17}, \alpha^{22}, \alpha^{19}, \alpha^{17}, \alpha^{21}, \alpha^{22}, \alpha^{5}, \alpha^{30}, \alpha^{16}, \alpha^{0}, \alpha^{4}, \alpha^{18}, \alpha^{27}, \alpha^{27}, \alpha^{28}, \alpha^{24}, \alpha^{12}, \alpha^{9}, \alpha^{26}, \alpha^{22}, \alpha^{1}, \alpha^{0}, \alpha^{11}, \alpha^{10}, \alpha^{26}, \alpha^{0}, \alpha^{30}, \alpha^{26}, \alpha^{0}, \alpha^{2}, \alpha^{21})$

25. $b = 4, y = (\alpha^{2}, \alpha^{26}, \alpha^{15}, \alpha^{15}, \alpha^{11}, \alpha^{20}, \alpha^{16}, \alpha^{29}, \alpha^{7}, \alpha^{26}, \alpha^{7}, \alpha^{12}, \alpha^{12}, \alpha^{1}, \alpha^{10}, \alpha^{8}, \alpha^{14}, \alpha^{27}, \alpha^{9}, \alpha^{5}, \alpha^{25}, \alpha^{12}, \alpha^{16}, 0, \alpha^{14}, \alpha^{24}, \alpha^{30}, \alpha^{28}, \alpha^{10}, \alpha^{26}, \alpha^{28})$

26. $b = 5, y = (\alpha^{11}, \alpha^{27}, \alpha^{10}, \alpha^{27}, \alpha^{4}, \alpha^{20}, \alpha^{28}, \alpha^{24}, \alpha^{29}, \alpha^{27}, \alpha^{22}, \alpha^{21}, \alpha^{16}, \alpha^{3}, \alpha^{8}, \alpha^{15}, \alpha^{6}, \alpha^{11}, \alpha^{18}, \alpha^{8}, \alpha^{11}, \alpha^{26}, \alpha^{24}, \alpha^{1}, \alpha^{9}, \alpha^{19}, \alpha^{13}, \alpha^{2}, \alpha^{29}, \alpha^{7}, \alpha^{17})$

27. $b = 5, y = (\alpha^{1}, \alpha^{27}, \alpha^{25}, \alpha^{0}, \alpha^{2}, 0, \alpha^{20}, \alpha^{4}, \alpha^{26}, \alpha^{26}, \alpha^{15}, \alpha^{29}, \alpha^{15}, \alpha^{12}, \alpha^{8}, \alpha^{20}, \alpha^{8}, \alpha^{30}, \alpha^{1}, \alpha^{23}, \alpha^{9}, \alpha^{25}, \alpha^{15}, \alpha^{24}, \alpha^{16}, \alpha^{10}, \alpha^{23}, \alpha^{14}, \alpha^{19}, \alpha^{22}, \alpha^{17})$

28. $b = 5, y = (\alpha^{22}, \alpha^{12}, \alpha^{6}, \alpha^{21}, \alpha^{25}, \alpha^{22}, \alpha^{3}, \alpha^{5}, \alpha^{9}, \alpha^{20}, \alpha^{25}, \alpha^{5}, \alpha^{24}, \alpha^{18}, \alpha^{7}, \alpha^{15}, \alpha^{12}, \alpha^{17}, \alpha^{18}, \alpha^{5}, \alpha^{12}, \alpha^{1}, \alpha^{9}, \alpha^{24}, \alpha^{16}, \alpha^{21}, \alpha^{22}, \alpha^{28}, \alpha^{4}, \alpha^{26}, \alpha^{11})$

29. $b = 5, y = (\alpha^{13}, \alpha^{7}, \alpha^{30}, \alpha^{11}, \alpha^{1}, \alpha^{26}, \alpha^{7}, \alpha^{2}, \alpha^{27}, \alpha^{1}, \alpha^{15}, 0, \alpha^{19}, \alpha^{0}, \alpha^{10}, \alpha^{22}, \alpha^{12}, \alpha^{0}, \alpha^{2}, \alpha^{12}, \alpha^{18}, 0, \alpha^{2}, \alpha^{11}, \alpha^{4}, \alpha^{3}, \alpha^{11}, \alpha^{27}, \alpha^{5}, \alpha^{4}, \alpha^{18})$

30. $b = 5, y = (\alpha^{15}, \alpha^{30}, \alpha^{26}, \alpha^{24}, \alpha^{5}, \alpha^{5}, \alpha^{9}, \alpha^{18}, \alpha^{2}, \alpha^{7}, \alpha^{28}, \alpha^{3}, \alpha^{15}, \alpha^{12}, 0, \alpha^{24}, \alpha^{3}, \alpha^{19}, \alpha^{28}, \alpha^{22}, \alpha^{25}, \alpha^{1}, \alpha^{12}, \alpha^{22}, \alpha^{28}, \alpha^{2}, \alpha^{7}, \alpha^{14}, \alpha^{20}, \alpha^{22}, \alpha^{1})$

31. $b = 6, y = (\alpha^{24}, \alpha^{3}, \alpha^{15}, 0, \alpha^{26}, \alpha^{26}, \alpha^{10}, \alpha^{27}, \alpha^{30}, \alpha^{30}, \alpha^{25}, \alpha^{27}, \alpha^{30}, 0, \alpha^{10}, \alpha^{3}, \alpha^{30}, \alpha^{4}, \alpha^{12}, \alpha^{5}, \alpha^{18}, \alpha^{10}, \alpha^{11}, \alpha^{2}, \alpha^{6}, \alpha^{23}, \alpha^{23}, \alpha^{28}, \alpha^{20}, \alpha^{22}, \alpha^{28})$

32. $b = 6, y = (\alpha^{24}, \alpha^{23}, \alpha^{8}, \alpha^{1}, 0, \alpha^{4}, \alpha^{13}, \alpha^{21}, \alpha^{21}, \alpha^{3}, \alpha^{6}, \alpha^{22}, \alpha^{5}, \alpha^{15}, \alpha^{8}, \alpha^{16}, \alpha^{26}, \alpha^{14}, \alpha^{9}, \alpha^{3}, \alpha^{20}, \alpha^{5}, \alpha^{29}, \alpha^{25}, \alpha^{2}, \alpha^{19}, \alpha^{9}, \alpha^{18}, \alpha^{27}, 0, \alpha^{1})$

33. $b = 6, y = (\alpha^{28}, 0, \alpha^{13}, \alpha^{2}, \alpha^{13}, \alpha^{5}, \alpha^{5}, \alpha^{19}, \alpha^{25}, \alpha^{7}, \alpha^{24}, \alpha^{27}, \alpha^{30}, 0, \alpha^{1}, \alpha^{14}, \alpha^{18}, \alpha^{21}, \alpha^{14}, \alpha^{22}, \alpha^{14}, \alpha^{11}, \alpha^{21}, \alpha^{28}, \alpha^{22}, \alpha^{6}, \alpha^{0}, \alpha^{14}, \alpha^{6}, \alpha^{8}, \alpha^{22})$

34. $b = 6, y = (\alpha^{14}, \alpha^{25}, \alpha^{20}, \alpha^{21}, \alpha^{21}, \alpha^{10}, \alpha^{5}, \alpha^{23}, \alpha^{24}, \alpha^{2}, \alpha^{26}, \alpha^{20}, \alpha^{9}, \alpha^{11}, \alpha^{13}, \alpha^{1}, \alpha^{3}, \alpha^{2}, \alpha^{12}, \alpha^{6}, \alpha^{7}, \alpha^{10}, \alpha^{10}, \alpha^{7}, \alpha^{28}, \alpha^{9}, \alpha^{26}, \alpha^{10}, \alpha^{5}, \alpha^{25}, \alpha^{7})$

35. $b = 6, y = (\alpha^{22}, \alpha^{9}, \alpha^{16}, \alpha^{2}, \alpha^{12}, \alpha^{11}, \alpha^{17}, \alpha^{5}, \alpha^{24}, \alpha^{0}, \alpha^{12}, \alpha^{4}, 0, \alpha^{23}, \alpha^{25}, \alpha^{16}, \alpha^{20}, \alpha^{27}, \alpha^{21}, \alpha^{24}, \alpha^{18}, \alpha^{26}, \alpha^{2}, \alpha^{6}, \alpha^{24}, \alpha^{19}, \alpha^{3}, \alpha^{13}, \alpha^{22}, 0, \alpha^{18})$

36. $b = 7, y = (\alpha^{25}, \alpha^{18}, \alpha^{11}, \alpha^{29}, \alpha^{29}, \alpha^{25}, \alpha^{20}, \alpha^{7}, \alpha^{13}, \alpha^{8}, \alpha^{4}, \alpha^{14}, \alpha^{22}, \alpha^{10}, \alpha^{21}, \alpha^{14}, \alpha^{30}, \alpha^{4}, \alpha^{19}, \alpha^{10}, \alpha^{27}, \alpha^{28}, \alpha^{16}, \alpha^{0}, \alpha^{15}, \alpha^{5}, \alpha^{17}, \alpha^{14}, \alpha^{20}, \alpha^{27}, \alpha^{6})$

37. $b = 7, y = (\alpha^{21}, \alpha^{26}, \alpha^{3}, \alpha^{15}, \alpha^{7}, \alpha^{3}, \alpha^{1}, \alpha^{25}, \alpha^{18}, \alpha^{8}, \alpha^{2}, 0, \alpha^{20}, \alpha^{13}, \alpha^{1}, \alpha^{22}, \alpha^{8}, \alpha^{11}, \alpha^{3}, \alpha^{3}, \alpha^{10}, \alpha^{23}, \alpha^{28}, \alpha^{20}, \alpha^{30}, \alpha^{23}, \alpha^{6}, \alpha^{18}, \alpha^{15}, \alpha^{26}, \alpha^{23})$

38. $b = 7, y = (\alpha^{15}, \alpha^{12}, \alpha^{14}, \alpha^{7}, \alpha^{17}, 0, \alpha^{16}, \alpha^{12}, \alpha^{5}, \alpha^{14}, \alpha^{30}, \alpha^{4}, \alpha^{6}, \alpha^{19}, \alpha^{8}, \alpha^{6}, \alpha^{15}, \alpha^{26}, \alpha^{28}, \alpha^{0}, \alpha^{5}, \alpha^{10}, \alpha^{13}, \alpha^{29}, \alpha^{22}, \alpha^{0}, \alpha^{10}, \alpha^{25}, \alpha^{3}, \alpha^{25}, \alpha^{12})$

39. $b = 7, y = (\alpha^{21}, \alpha^{10}, \alpha^{24}, \alpha^{29}, \alpha^{3}, \alpha^{0}, \alpha^{2}, \alpha^{11}, \alpha^{23}, \alpha^{18}, \alpha^{25}, \alpha^{30}, 0, \alpha^{18}, \alpha^{20}, \alpha^{13}, \alpha^{12}, \alpha^{25}, \alpha^{3}, \alpha^{16}, \alpha^{14}, \alpha^{22}, 0, \alpha^{11}, \alpha^{14}, \alpha^{11}, \alpha^{15}, \alpha^{30}, 0, \alpha^{27}, \alpha^{15})$

40. $b = 7, y = (\alpha^{5}, \alpha^{24}, \alpha^{4}, \alpha^{22}, 0, \alpha^{30}, \alpha^{29}, \alpha^{12}, \alpha^{0}, \alpha^{30}, \alpha^{23}, \alpha^{0}, \alpha^{17}, \alpha^{24}, \alpha^{0}, \alpha^{19}, \alpha^{0}, \alpha^{7}, \alpha^{10}, \alpha^{17}, \alpha^{28}, \alpha^{0}, \alpha^{19}, \alpha^{19}, 0, \alpha^{17}, \alpha^{29}, \alpha^{19}, \alpha^{17}, \alpha^{13}, \alpha^{28})$

41. $b = 8, y = (\alpha^{17}, \alpha^{4}, \alpha^{3}, \alpha^{28}, \alpha^{14}, \alpha^{0}, \alpha^{27}, \alpha^{17}, \alpha^{30}, \alpha^{3}, \alpha^{29}, \alpha^{0}, \alpha^{26}, 0, \alpha^{25}, \alpha^{5}, \alpha^{15}, \alpha^{2}, \alpha^{9}, \alpha^{20}, \alpha^{20}, \alpha^{7}, \alpha^{8}, \alpha^{10}, \alpha^{16}, \alpha^{7}, \alpha^{29}, \alpha^{24}, \alpha^{26}, \alpha^{14}, \alpha^{25})$

42. $b = 8, y = (\alpha^{28}, \alpha^{24}, \alpha^{13}, \alpha^{8}, \alpha^{9}, \alpha^{11}, \alpha^{19}, \alpha^{14}, \alpha^{11}, \alpha^{16}, \alpha^{27}, \alpha^{17}, \alpha^{10}, \alpha^{27}, \alpha^{26}, \alpha^{21}, \alpha^{1}, \alpha^{1}, \alpha^{21}, \alpha^{12}, \alpha^{22}, \alpha^{22}, \alpha^{19}, \alpha^{11}, \alpha^{9}, \alpha^{21}, \alpha^{7}, \alpha^{2}, \alpha^{1}, \alpha^{13}, \alpha^{26})$

43. $b = 8, y = (\alpha^{27}, \alpha^{17}, \alpha^{18}, \alpha^{11}, \alpha^{2}, \alpha^{6}, 0, \alpha^{6}, \alpha^{8}, \alpha^{0}, \alpha^{28}, \alpha^{0}, \alpha^{8}, \alpha^{20}, \alpha^{26}, \alpha^{29}, \alpha^{18}, \alpha^{25}, \alpha^{2}, \alpha^{15}, \alpha^{2}, \alpha^{16}, \alpha^{2}, \alpha^{17}, \alpha^{24}, \alpha^{4}, \alpha^{17}, \alpha^{3}, \alpha^{10}, \alpha^{10}, \alpha^{2})$

44. $b = 8, y = (\alpha^{17}, \alpha^{30}, \alpha^{4}, \alpha^{16}, \alpha^{14}, 0, \alpha^{0}, \alpha^{4}, \alpha^{4}, \alpha^{18}, \alpha^{6}, \alpha^{5}, \alpha^{23}, \alpha^{11}, \alpha^{14}, \alpha^{2}, \alpha^{9}, \alpha^{8}, \alpha^{10}, \alpha^{29}, \alpha^{18}, \alpha^{2}, \alpha^{26}, \alpha^{3}, \alpha^{0}, \alpha^{24}, \alpha^{2}, \alpha^{14}, \alpha^{14}, \alpha^{20}, \alpha^{20})$

45. $b = 8, y = (\alpha^{28}, \alpha^{27}, \alpha^{1}, \alpha^{5}, \alpha^{24}, \alpha^{21}, \alpha^{19}, \alpha^{12}, \alpha^{9}, \alpha^{30}, \alpha^{23}, \alpha^{8}, \alpha^{18}, \alpha^{21}, \alpha^{30}, \alpha^{19}, \alpha^{30}, \alpha^{24}, \alpha^{18}, \alpha^{5}, \alpha^{16}, \alpha^{10}, \alpha^{23}, \alpha^{23}, \alpha^{5}, 0, \alpha^{5}, \alpha^{23}, \alpha^{15}, \alpha^{24}, \alpha^{12})$

46. $b = 9, y = (\alpha^{26}, \alpha^4, \alpha^{27}, \alpha^{10}, \alpha^7, \alpha^{26}, \alpha^{18}, \alpha^{26}, \alpha^1, \alpha^{25}, \alpha^{11}, \alpha^{22}, \alpha^8, \alpha^{14}, \alpha^8, \alpha^{10}, \alpha^{23}, \alpha^7, \alpha^{19}, \alpha^{11}, \alpha^7, \alpha^{22}, \alpha^1, \alpha^8, \alpha^3, 0, \alpha^4, \alpha^8, \alpha^{13}, \alpha^{16}, \alpha^4)$

47. $b = 9, y = (\alpha^7, \alpha^{17}, \alpha^{18}, \alpha^{27}, \alpha^{18}, \alpha^{22}, \alpha^{29}, \alpha^{11}, \alpha^{16}, \alpha^{26}, \alpha^{27}, \alpha^{20}, \alpha^{24}, \alpha^7, \alpha^{18}, \alpha^{27}, \alpha^{28}, \alpha^{23}, \alpha^{27}, \alpha^{28}, \alpha^{14}, \alpha^7, \alpha^{13}, \alpha^{13}, \alpha^{13}, \alpha^{15}, \alpha^5, \alpha^{15}, \alpha^{15}, \alpha^3, \alpha^{17})$

48. $b = 9, y = (\alpha^{29}, \alpha^6, \alpha^{13}, \alpha^{12}, \alpha^{24}, \alpha^{15}, \alpha^{16}, \alpha^{21}, \alpha^0, \alpha^{11}, \alpha^0, \alpha^{16}, \alpha^{18}, \alpha^{29}, \alpha^{16}, \alpha^{13}, \alpha^{30}, \alpha^8, \alpha^{30}, 0, \alpha^{25}, \alpha^2, \alpha^5, \alpha^{23}, \alpha^{19}, \alpha^9, 0, \alpha^{29}, \alpha^{25}, \alpha^7, \alpha^6)$

49. $b = 9, y = (\alpha^{26}, \alpha^{12}, \alpha^1, \alpha^{23}, \alpha^9, \alpha^2, \alpha^{28}, \alpha^{12}, \alpha^7, \alpha^5, \alpha^{23}, 0, \alpha^{28}, \alpha^6, \alpha^5, \alpha^{27}, \alpha^{10}, \alpha^{21}, \alpha^4, \alpha^7, \alpha^{21}, \alpha^{19}, \alpha^{21}, \alpha^{15}, \alpha^{17}, \alpha^{20}, \alpha^8, \alpha^0, \alpha^{18}, \alpha^1, \alpha^4)$

50. $b = 9, y = (\alpha^{20}, \alpha^{24}, \alpha^0, \alpha^{24}, \alpha^9, \alpha^8, \alpha^{20}, \alpha^{29}, \alpha^5, \alpha^5, \alpha^{23}, \alpha^{19}, \alpha^{11}, \alpha^6, \alpha^{10}, \alpha^{23}, \alpha^{25}, \alpha^3, \alpha^{16}, \alpha^7, \alpha^{17}, \alpha^{14}, \alpha^{10}, \alpha^{10}, 0, \alpha^{30}, \alpha^{22}, \alpha^8, \alpha^7, \alpha^4, \alpha^{13})$

51. $b = 10, y = (\alpha^9, \alpha^{23}, \alpha^0, \alpha^{16}, \alpha^{25}, \alpha^{25}, \alpha^{24}, \alpha^{12}, \alpha^{23}, \alpha^{11}, \alpha^{20}, \alpha^3, \alpha^{21}, \alpha^{30}, \alpha^{19}, \alpha^{10}, \alpha^{17}, \alpha^{12}, \alpha^0, \alpha^4, \alpha^3, \alpha^{17}, \alpha^9, \alpha^1, \alpha^{25}, \alpha^{13}, \alpha^0, \alpha^{27}, \alpha^{28}, \alpha^{15}, \alpha^{27})$

52. $b = 10, y = (\alpha^4, \alpha^{18}, \alpha^{26}, \alpha^{16}, \alpha^{13}, \alpha^{30}, \alpha^{19}, \alpha^{30}, 0, \alpha^{19}, \alpha^{14}, \alpha^{20}, \alpha^{29}, \alpha^{20}, 0, \alpha^{30}, \alpha^1, \alpha^{24}, \alpha^7, \alpha^{14}, \alpha^{21}, \alpha^2, \alpha^{28}, \alpha^0, \alpha^{30}, \alpha^7, \alpha^{18}, \alpha^2, \alpha^{25}, \alpha^8, 0)$

53. $b = 10, y = (\alpha^{16}, \alpha^{27}, \alpha^4, \alpha^{12}, \alpha^{23}, \alpha^{15}, \alpha^{24}, \alpha^3, \alpha^0, \alpha^{28}, \alpha^0, \alpha^5, \alpha^{17}, \alpha^{24}, \alpha^{15}, \alpha^3, \alpha^3, \alpha^{23}, \alpha^{12}, \alpha^{28}, \alpha^{17}, \alpha^{16}, \alpha^{17}, \alpha^{25}, \alpha^{12}, \alpha^{20}, \alpha^{12}, \alpha^{23}, \alpha^7, \alpha^1, \alpha^{16})$

54. $b = 10, y = (\alpha^0, \alpha^{22}, \alpha^{21}, \alpha^{14}, \alpha^{19}, \alpha^{13}, \alpha^{29}, \alpha^{17}, \alpha^{12}, \alpha^{21}, \alpha^{10}, \alpha^3, \alpha^{15}, 0, \alpha^{18}, \alpha^{10}, \alpha^{26}, \alpha^{27}, \alpha^4, \alpha^9, \alpha^1, \alpha^{27}, \alpha^{24}, \alpha^{22}, \alpha^{21}, \alpha^{21}, \alpha^8, \alpha^{29}, \alpha^{16}, \alpha^9, \alpha^{14})$

55. $b = 10, y = (\alpha^{24}, \alpha^{14}, \alpha^{27}, \alpha^{20}, 0, \alpha^{27}, \alpha^{10}, \alpha^{23}, \alpha^{14}, \alpha^{17}, \alpha^{20}, \alpha^{19}, \alpha^3, \alpha^4, \alpha^8, \alpha^{25}, \alpha^8, \alpha^{13}, \alpha^{22}, \alpha^{11}, \alpha^6, \alpha^{19}, \alpha^{25}, \alpha^2, \alpha^6, \alpha^{11}, \alpha^{15}, \alpha^{13}, \alpha^9, \alpha^0, \alpha^{21})$

56. $b = 11, y = (\alpha^9, \alpha^{22}, \alpha^2, \alpha^{28}, \alpha^{23}, \alpha^{30}, \alpha^3, \alpha^3, \alpha^{16}, \alpha^9, \alpha^9, \alpha^5, \alpha^{19}, \alpha^8, \alpha^9, \alpha^{12}, \alpha^7, \alpha^2, \alpha^{12}, \alpha^2, \alpha^{16}, \alpha^{12}, \alpha^3, \alpha^{16}, \alpha^{13}, \alpha^{18}, \alpha^{13}, \alpha^{29}, \alpha^{15}, \alpha^1, \alpha^0)$

57. $b = 11, y = (\alpha^{28}, \alpha^{29}, \alpha^7, \alpha^9, \alpha^{21}, \alpha^{28}, \alpha^{15}, \alpha^{17}, \alpha^{20}, \alpha^{17}, \alpha^5, \alpha^{29}, \alpha^{12}, \alpha^2, \alpha^{13}, \alpha^{17}, \alpha^3, \alpha^{19}, \alpha^9, \alpha^{15}, \alpha^{30}, \alpha^{11}, \alpha^{18}, \alpha^0, \alpha^3, \alpha^{12}, \alpha^{30}, \alpha^{22}, \alpha^{18}, \alpha^{26}, \alpha^{28})$

58. $b = 11, y = (\alpha^{19}, \alpha^{12}, \alpha^{12}, 0, \alpha^{20}, \alpha^{29}, \alpha^{16}, \alpha^{26}, 0, \alpha^9, \alpha^{14}, \alpha^{20}, \alpha^{28}, \alpha^{19}, \alpha^{19}, \alpha^9, \alpha^{22}, \alpha^{21}, \alpha^{11}, \alpha^{28}, \alpha^{15}, \alpha^{22}, \alpha^2, \alpha^{21}, \alpha^{27}, \alpha^{18}, \alpha^{29}, \alpha^{11}, \alpha^3, \alpha^5, \alpha^1)$

59. $b = 11, y = (\alpha^{19}, \alpha^7, \alpha^4, \alpha^4, \alpha^2, \alpha^{28}, \alpha^{26}, \alpha^{28}, \alpha^{27}, \alpha^{17}, \alpha^{12}, \alpha^{11}, \alpha^5, \alpha^3, \alpha^{29}, \alpha^{20}, \alpha^5, \alpha^{14}, \alpha^{29}, \alpha^{29}, \alpha^{22}, \alpha^2, \alpha^4, \alpha^4, \alpha^7, \alpha^8, \alpha^3, \alpha^{24}, \alpha^{26}, \alpha^{12}, 0)$

60. $b = 11, y = (\alpha^{15}, \alpha^9, \alpha^{27}, \alpha^{18}, \alpha^{18}, \alpha^{30}, \alpha^{14}, 0, \alpha^{22}, \alpha^{23}, 0, \alpha^{16}, \alpha^{24}, \alpha^{12}, \alpha^0, \alpha^{16}, \alpha^{13}, \alpha^{28}, \alpha^0, \alpha^4, \alpha^{27}, \alpha^{16}, \alpha^0, \alpha^1, \alpha^{25}, \alpha^{29}, \alpha^{12}, \alpha^{11}, \alpha^{16}, \alpha^2, \alpha^3)$

61. $b = 12, y = (\alpha^{18}, \alpha^{23}, \alpha^2, \alpha^{28}, \alpha^{19}, \alpha^4, \alpha^2, \alpha^{22}, \alpha^{11}, \alpha^1, \alpha^5, \alpha^8, \alpha^2, \alpha^{23}, \alpha^{22}, \alpha^{24}, \alpha^{25}, 0, \alpha^6, \alpha^{24}, \alpha^{15}, \alpha^{26}, \alpha^0, \alpha^0, \alpha^{30}, \alpha^2, \alpha^7, \alpha^{11}, \alpha^{20}, \alpha^{14}, \alpha^{26})$

62. $b = 12, y = (\alpha^{17}, \alpha^{26}, \alpha^7, \alpha^{22}, \alpha^2, \alpha^{29}, \alpha^{30}, \alpha^{10}, \alpha^{17}, 0, \alpha^9, \alpha^4, \alpha^{26}, \alpha^{19}, \alpha^{19}, \alpha^{16}, \alpha^{27}, \alpha^{22}, \alpha^4, \alpha^{29}, \alpha^7, \alpha^{14}, \alpha^{20}, \alpha^{14}, \alpha^0, \alpha^{26}, 0, \alpha^{16}, \alpha^1, \alpha^{16}, \alpha^1)$

63. $b = 12, y = (\alpha^{12}, \alpha^8, \alpha^1, \alpha^{24}, \alpha^4, \alpha^5, \alpha^4, \alpha^8, \alpha^{17}, \alpha^{14}, \alpha^{18}, \alpha^{18}, \alpha^9, \alpha^{10}, \alpha^4, \alpha^4, \alpha^9, \alpha^{24}, \alpha^{30}, \alpha^1, \alpha^{10}, \alpha^{13}, \alpha^{13}, \alpha^{11}, \alpha^{17}, \alpha^{16}, \alpha^{11}, \alpha^{22}, \alpha^2, \alpha^1, \alpha^{12})$

64. $b = 12, y = (\alpha^{14}, \alpha^{28}, \alpha^{15}, \alpha^{19}, \alpha^{24}, \alpha^2, \alpha^{27}, \alpha^{23}, \alpha^{25}, \alpha^{17}, \alpha^{27}, \alpha^{13}, \alpha^{22}, \alpha^{13}, \alpha^{28}, \alpha^{26}, \alpha^{11}, \alpha^{28}, \alpha^8, \alpha^4, \alpha^{22}, \alpha^{13}, \alpha^{24}, \alpha^{11}, \alpha^{20}, \alpha^{27}, \alpha^{14}, \alpha^{19}, \alpha^{16}, \alpha^7, \alpha^{14})$

65. $b = 12, y = (\alpha^{21}, \alpha^{22}, \alpha^{25}, \alpha^{21}, \alpha^{19}, \alpha^7, \alpha^{29}, \alpha^{15}, \alpha^{27}, \alpha^{15}, \alpha^{19}, \alpha^2, \alpha^2, \alpha^{18}, \alpha^{11}, \alpha^9, \alpha^7, \alpha^0, \alpha^{27}, \alpha^{21}, \alpha^2, \alpha^{27}, \alpha^{17}, \alpha^6, \alpha^2, \alpha^4, \alpha^6, \alpha^{30}, \alpha^{17}, \alpha^{28}, \alpha^{19})$

66. $b = 13, y = (\alpha^{21}, \alpha^0, \alpha^{19}, \alpha^{27}, \alpha^{24}, \alpha^8, \alpha^9, \alpha^3, \alpha^0, \alpha^6, \alpha^8, \alpha^{23}, \alpha^5, \alpha^0, \alpha^{21}, \alpha^4, \alpha^9, \alpha^{11}, \alpha^{23}, \alpha^5, \alpha^{30}, \alpha^{25}, \alpha^{24}, \alpha^{25}, 0, \alpha^4, \alpha^1, \alpha^0, \alpha^{16}, \alpha^{21}, \alpha^0)$

67. $b = 13, y = (\alpha^6, \alpha^8, \alpha^4, \alpha^{23}, \alpha^9, \alpha^0, \alpha^6, \alpha^3, \alpha^{25}, \alpha^{21}, \alpha^{12}, \alpha^{13}, \alpha^{28}, \alpha^{13}, \alpha^{16}, \alpha^8, \alpha^{14}, \alpha^6, \alpha^{30}, \alpha^{12}, \alpha^{14}, \alpha^3, \alpha^3, \alpha^{15}, \alpha^3, \alpha^{17}, \alpha^{19}, \alpha^{26}, \alpha^{24}, \alpha^8, \alpha^{18})$

68. $b = 13, y = (\alpha^9, \alpha^{20}, \alpha^{12}, \alpha^7, \alpha^{19}, \alpha^{27}, \alpha^{17}, \alpha^3, \alpha^{28}, \alpha^{14}, \alpha^7, \alpha^{19}, \alpha^3, \alpha^{13}, \alpha^0, \alpha^{17}, \alpha^3, \alpha^8, \alpha^{20}, \alpha^1, \alpha^2, \alpha^1, \alpha^{15}, \alpha^{13}, \alpha^1, \alpha^5, \alpha^{25}, \alpha^{26}, \alpha^1, \alpha^4, \alpha^{17})$

69. $b = 13, y = (\alpha^{13}, \alpha^8, \alpha^{15}, \alpha^{26}, \alpha^{13}, \alpha^6, \alpha^{12}, \alpha^{21}, \alpha^4, \alpha^8, \alpha^8, \alpha^{14}, \alpha^7, 0, \alpha^{19}, \alpha^{27}, \alpha^5, \alpha^{13}, \alpha^{22}, \alpha^{20}, \alpha^{15}, \alpha^{18}, \alpha^{30}, \alpha^{11}, \alpha^{14}, \alpha^{22}, \alpha^{28}, \alpha^{17}, \alpha^1, \alpha^{21}, \alpha^{24})$

70. $b = 13, y = (\alpha^{28}, \alpha^3, \alpha^1, \alpha^{17}, \alpha^{17}, \alpha^{12}, \alpha^{24}, \alpha^{22}, \alpha^{25}, \alpha^{18}, \alpha^{23}, \alpha^{17}, \alpha^{12}, \alpha^{21}, \alpha^{19}, \alpha^4, \alpha^{13}, \alpha^{24}, \alpha^{28}, \alpha^9, \alpha^{21}, \alpha^{21}, \alpha^{21}, \alpha^{18}, \alpha^{12}, \alpha^{29}, \alpha^8, \alpha^{14}, \alpha^{18}, \alpha^{27}, \alpha^5)$

71. $b = 14, y = (\alpha^{11}, \alpha^9, \alpha^3, \alpha^6, \alpha^6, \alpha^{29}, \alpha^4, \alpha^1, \alpha^5, \alpha^{10}, \alpha^1, \alpha^{24}, \alpha^{21}, 0, \alpha^3, \alpha^2, \alpha^{14}, \alpha^{25}, \alpha^{22}, \alpha^1, \alpha^{29}, \alpha^{21}, \alpha^{24}, \alpha^{15}, \alpha^{19}, \alpha^{15}, \alpha^{27}, \alpha^6, \alpha^{13}, \alpha^1, \alpha^8)$

72. $b = 14, y = (\alpha^{22}, \alpha^5, \alpha^{22}, \alpha^5, \alpha^{20}, \alpha^{20}, \alpha^5, \alpha^{17}, \alpha^{12}, \alpha^4, \alpha^0, \alpha^{16}, \alpha^{15}, \alpha^{22}, \alpha^{16}, \alpha^2, \alpha^{29}, \alpha^{20}, \alpha^{28}, \alpha^{11}, \alpha^{29}, \alpha^9, \alpha^{27}, \alpha^2, \alpha^{29}, \alpha^{13}, \alpha^8, \alpha^{16}, \alpha^{23}, \alpha^9, \alpha^0)$

73. $b = 14, y = (\alpha^4, \alpha^{27}, \alpha^{22}, \alpha^{14}, \alpha^{23}, \alpha^{22}, \alpha^{15}, \alpha^3, \alpha^{27}, \alpha^{13}, \alpha^{24}, \alpha^{20}, \alpha^9, \alpha^{14}, \alpha^{27}, \alpha^9, \alpha^{20}, \alpha^{10}, \alpha^7, \alpha^{10}, \alpha^9, \alpha^2, \alpha^{22}, \alpha^{13}, \alpha^{11}, \alpha^{25}, \alpha^{17}, \alpha^{20}, \alpha^3, 0, \alpha^8)$

74. $b = 14, y = (\alpha^{13}, \alpha^{15}, \alpha^{22}, \alpha^{19}, \alpha^{23}, \alpha^9, \alpha^8, \alpha^0, \alpha^{18}, \alpha^{22}, \alpha^{20}, \alpha^5, \alpha^1, \alpha^{21}, \alpha^{28}, \alpha^{24}, \alpha^{27}, \alpha^{24}, \alpha^{22}, \alpha^{18}, \alpha^9, \alpha^0, 0, \alpha^{18}, \alpha^{14}, \alpha^0, \alpha^{11}, \alpha^{23}, \alpha^{23}, \alpha^{24}, \alpha^0)$

75. $b = 14, y = (\alpha^{23}, \alpha^{11}, \alpha^{15}, \alpha^{22}, \alpha^{22}, \alpha^{22}, \alpha^5, \alpha^7, \alpha^5, \alpha^{25}, \alpha^2, \alpha^{27}, \alpha^{18}, \alpha^{23}, \alpha^8, \alpha^9, \alpha^{28}, \alpha^{15}, 0, \alpha^{28}, 0, \alpha^{16}, \alpha^{24}, \alpha^{16}, \alpha^4, \alpha^{12}, \alpha^{26}, \alpha^2, \alpha^{28}, \alpha^{28}, \alpha^{16})$

76. $b = 15, y = (\alpha^{15}, \alpha^{30}, \alpha^{20}, \alpha^{19}, \alpha^1, \alpha^{21}, \alpha^7, \alpha^{28}, \alpha^{24}, \alpha^0, \alpha^2, \alpha^3, \alpha^3, \alpha^8, \alpha^{17}, \alpha^{28}, \alpha^9, \alpha^{10}, \alpha^{22}, \alpha^{12}, \alpha^{28}, \alpha^{21}, \alpha^5, \alpha^{27}, \alpha^7, \alpha^{29}, \alpha^9, \alpha^{12}, \alpha^{18}, \alpha^{22}, \alpha^{18})$

77. $b = 15, y = (\alpha^{19}, \alpha^{26}, \alpha^6, \alpha^4, \alpha^{19}, \alpha^6, \alpha^{11}, 0, \alpha^{23}, \alpha^3, \alpha^1, \alpha^{26}, \alpha^{18}, \alpha^{25}, \alpha^{11}, \alpha^9, \alpha^{20}, \alpha^{10}, \alpha^{11}, \alpha^{24}, \alpha^2, \alpha^{20}, \alpha^{25}, \alpha^5, \alpha^{15}, \alpha^5, \alpha^{18}, \alpha^{24}, \alpha^{23}, \alpha^8, \alpha^5)$

78. $b = 15, y = (\alpha^8, \alpha^{19}, \alpha^7, \alpha^{29}, \alpha^{14}, \alpha^4, 0, \alpha^{28}, \alpha^{16}, \alpha^{25}, \alpha^1, \alpha^9, \alpha^4, \alpha^{21}, \alpha^{29}, \alpha^9, \alpha^8, \alpha^0, \alpha^{26}, \alpha^4, \alpha^{27}, \alpha^5, \alpha^3, \alpha^{26}, \alpha^{25}, \alpha^{12}, \alpha^8, \alpha^{10}, \alpha^{10}, \alpha^{27}, \alpha^{29})$

79. $b = 15, y = (\alpha^3, \alpha^{10}, \alpha^{13}, \alpha^{14}, \alpha^4, \alpha^{29}, \alpha^{19}, \alpha^{30}, \alpha^{15}, \alpha^4, 0, \alpha^{13}, \alpha^6, \alpha^7, \alpha^{30}, \alpha^{17}, \alpha^9, \alpha^{13}, 0, \alpha^{30}, \alpha^2, \alpha^{13}, \alpha^{26}, \alpha^{17}, \alpha^{18}, \alpha^{24}, \alpha^{26}, \alpha^{10}, \alpha^8, \alpha^{28}, \alpha^{15})$

80. $b = 15, y = (\alpha^3, \alpha^6, \alpha^{27}, \alpha^0, \alpha^{16}, 0, \alpha^{29}, \alpha^{27}, \alpha^{20}, \alpha^{21}, \alpha^2, \alpha^0, \alpha^6, \alpha^{13}, \alpha^{18}, \alpha^{12}, \alpha^1, \alpha^{27}, \alpha^{22}, \alpha^{29}, \alpha^{27}, \alpha^{27}, \alpha^{30}, \alpha^{12}, \alpha^6, 0, \alpha^{19}, \alpha^5, \alpha^{28}, \alpha^{20}, \alpha^{13})$

81. $b = 16, y = (\alpha^{25}, \alpha^{11}, \alpha^{19}, \alpha^{14}, \alpha^{25}, \alpha^{3}, 0, \alpha^{29}, \alpha^{3}, \alpha^{21}, \alpha^{0}, \alpha^{5}, \alpha^{15}, \alpha^{19}, \alpha^{10}, \alpha^{16}, \alpha^{26}, \alpha^{21}, \alpha^{27}, \alpha^{28}, \alpha^{4}, \alpha^{14}, \alpha^{25}, \alpha^{25}, \alpha^{20}, \alpha^{11}, \alpha^{4}, \alpha^{19}, \alpha^{28}, \alpha^{19}, \alpha^{9})$

82. $b = 16, y = (\alpha^{18}, \alpha^{18}, \alpha^{4}, \alpha^{24}, \alpha^{16}, \alpha^{16}, \alpha^{12}, \alpha^{13}, \alpha^{1}, \alpha^{28}, \alpha^{23}, \alpha^{27}, \alpha^{29}, \alpha^{3}, \alpha^{8}, \alpha^{0}, \alpha^{2}, \alpha^{13}, \alpha^{12}, \alpha^{19}, \alpha^{9}, \alpha^{16}, \alpha^{29}, \alpha^{28}, \alpha^{29}, \alpha^{1}, \alpha^{24}, \alpha^{12}, \alpha^{13}, \alpha^{22}, \alpha^{23})$

83. $b = 16, y = (\alpha^{6}, \alpha^{16}, \alpha^{8}, \alpha^{9}, \alpha^{30}, \alpha^{30}, \alpha^{19}, \alpha^{7}, \alpha^{7}, \alpha^{16}, \alpha^{30}, 0, \alpha^{22}, \alpha^{6}, \alpha^{25}, \alpha^{30}, \alpha^{13}, \alpha^{15}, \alpha^{5}, \alpha^{0}, \alpha^{0}, \alpha^{14}, 0, \alpha^{2}, \alpha^{11}, \alpha^{25}, \alpha^{26}, \alpha^{10}, \alpha^{24}, \alpha^{14}, \alpha^{27})$

84. $b = 16, y = (\alpha^{21}, \alpha^{10}, \alpha^{11}, \alpha^{5}, \alpha^{9}, \alpha^{17}, \alpha^{3}, \alpha^{29}, \alpha^{14}, \alpha^{29}, \alpha^{9}, \alpha^{29}, \alpha^{12}, \alpha^{24}, \alpha^{16}, \alpha^{20}, \alpha^{22}, \alpha^{11}, \alpha^{0}, \alpha^{17}, \alpha^{5}, \alpha^{26}, \alpha^{10}, \alpha^{20}, \alpha^{4}, \alpha^{20}, \alpha^{27}, \alpha^{19}, \alpha^{24}, \alpha^{17}, \alpha^{10})$

85. $b = 16, y = (\alpha^{8}, \alpha^{12}, \alpha^{15}, \alpha^{18}, \alpha^{16}, \alpha^{6}, \alpha^{7}, \alpha^{2}, \alpha^{16}, \alpha^{22}, \alpha^{28}, \alpha^{28}, \alpha^{15}, \alpha^{19}, \alpha^{28}, \alpha^{15}, \alpha^{22}, \alpha^{30}, \alpha^{2}, \alpha^{10}, \alpha^{23}, \alpha^{9}, \alpha^{1}, \alpha^{26}, \alpha^{23}, \alpha^{1}, \alpha^{14}, \alpha^{12}, \alpha^{9}, \alpha^{22}, \alpha^{21})$

86. $b = 17, y = (\alpha^{23}, \alpha^{3}, \alpha^{13}, 0, \alpha^{2}, \alpha^{9}, \alpha^{19}, \alpha^{16}, \alpha^{30}, \alpha^{12}, \alpha^{0}, \alpha^{4}, \alpha^{12}, \alpha^{17}, \alpha^{10}, \alpha^{14}, \alpha^{13}, \alpha^{29}, \alpha^{23}, \alpha^{5}, \alpha^{10}, \alpha^{7}, \alpha^{13}, \alpha^{1}, \alpha^{30}, \alpha^{9}, 0, \alpha^{24}, \alpha^{28}, \alpha^{2}, \alpha^{0})$

87. $b = 17, y = (\alpha^{22}, \alpha^{16}, \alpha^{30}, \alpha^{17}, \alpha^{14}, \alpha^{15}, \alpha^{1}, \alpha^{29}, \alpha^{20}, \alpha^{22}, \alpha^{5}, \alpha^{25}, \alpha^{13}, \alpha^{5}, \alpha^{29}, \alpha^{2}, \alpha^{19}, \alpha^{26}, \alpha^{10}, \alpha^{28}, \alpha^{5}, \alpha^{1}, \alpha^{22}, \alpha^{15}, \alpha^{3}, \alpha^{14}, \alpha^{25}, \alpha^{9}, \alpha^{3}, \alpha^{24}, \alpha^{22})$

88. $b = 17, y = (\alpha^{2}, \alpha^{17}, \alpha^{8}, \alpha^{5}, 0, \alpha^{12}, \alpha^{22}, \alpha^{9}, \alpha^{24}, \alpha^{19}, \alpha^{1}, \alpha^{4}, \alpha^{28}, \alpha^{28}, \alpha^{1}, \alpha^{22}, \alpha^{3}, \alpha^{0}, \alpha^{22}, \alpha^{25}, \alpha^{15}, \alpha^{29}, \alpha^{14}, \alpha^{29}, \alpha^{1}, \alpha^{5}, 0, \alpha^{2}, \alpha^{26}, \alpha^{15}, \alpha^{28})$

89. $b = 17, y = (\alpha^{3}, \alpha^{14}, \alpha^{8}, \alpha^{11}, \alpha^{22}, \alpha^{20}, \alpha^{30}, \alpha^{10}, \alpha^{10}, \alpha^{20}, \alpha^{0}, \alpha^{1}, \alpha^{3}, \alpha^{9}, \alpha^{25}, \alpha^{12}, \alpha^{17}, \alpha^{5}, \alpha^{0}, \alpha^{16}, \alpha^{3}, \alpha^{0}, \alpha^{4}, \alpha^{4}, \alpha^{27}, \alpha^{30}, \alpha^{23}, \alpha^{29}, \alpha^{4}, \alpha^{18}, \alpha^{17})$

90. $b = 17, y = (\alpha^{22}, \alpha^{15}, \alpha^{11}, \alpha^{2}, \alpha^{29}, \alpha^{6}, \alpha^{5}, \alpha^{28}, \alpha^{2}, \alpha^{13}, \alpha^{23}, \alpha^{7}, \alpha^{2}, \alpha^{26}, \alpha^{0}, \alpha^{3}, \alpha^{8}, \alpha^{0}, \alpha^{27}, \alpha^{15}, \alpha^{10}, \alpha^{4}, \alpha^{27}, \alpha^{27}, \alpha^{2}, \alpha^{22}, \alpha^{14}, \alpha^{18}, \alpha^{20}, \alpha^{21}, \alpha^{3})$

91. $b = 18, y = (\alpha^{9}, \alpha^{23}, \alpha^{3}, \alpha^{15}, \alpha^{28}, \alpha^{1}, \alpha^{26}, \alpha^{10}, \alpha^{29}, \alpha^{27}, \alpha^{10}, \alpha^{22}, \alpha^{2}, \alpha^{15}, \alpha^{23}, \alpha^{6}, \alpha^{25}, \alpha^{6}, \alpha^{11}, \alpha^{5}, \alpha^{26}, \alpha^{20}, \alpha^{19}, \alpha^{27}, \alpha^{24}, 0, 0, \alpha^{18}, \alpha^{2}, \alpha^{23}, \alpha^{21})$

92. $b = 18, y = (\alpha^{16}, \alpha^{3}, \alpha^{1}, \alpha^{30}, \alpha^{0}, \alpha^{17}, \alpha^{9}, \alpha^{22}, \alpha^{17}, \alpha^{19}, \alpha^{27}, \alpha^{5}, \alpha^{3}, \alpha^{12}, \alpha^{20}, 0, \alpha^{20}, \alpha^{28}, \alpha^{2}, \alpha^{22}, \alpha^{15}, \alpha^{11}, \alpha^{5}, \alpha^{9}, \alpha^{18}, \alpha^{4}, \alpha^{7}, \alpha^{5}, \alpha^{13}, \alpha^{3}, \alpha^{25})$

93. $b = 18, y = (\alpha^{24}, \alpha^{5}, 0, \alpha^{5}, 0, \alpha^{7}, \alpha^{7}, \alpha^{16}, \alpha^{2}, \alpha^{26}, \alpha^{11}, \alpha^{25}, \alpha^{16}, \alpha^{5}, \alpha^{30}, \alpha^{3}, \alpha^{21}, \alpha^{21}, \alpha^{11}, \alpha^{20}, \alpha^{2}, \alpha^{11}, \alpha^{10}, \alpha^{19}, \alpha^{21}, \alpha^{5}, \alpha^{27}, \alpha^{10}, \alpha^{2}, \alpha^{2}, \alpha^{22})$

94. $b = 18, y = (\alpha^{22}, \alpha^{6}, \alpha^{6}, \alpha^{21}, \alpha^{16}, \alpha^{5}, \alpha^{7}, \alpha^{14}, \alpha^{1}, \alpha^{0}, \alpha^{6}, \alpha^{18}, \alpha^{26}, \alpha^{19}, \alpha^{9}, \alpha^{24}, \alpha^{13}, \alpha^{15}, \alpha^{8}, \alpha^{26}, 0, \alpha^{25}, \alpha^{29}, \alpha^{1}, \alpha^{5}, \alpha^{15}, \alpha^{24}, \alpha^{26}, \alpha^{0}, \alpha^{13}, \alpha^{16})$

95. $b = 18, y = (\alpha^{0}, \alpha^{12}, \alpha^{16}, \alpha^{8}, \alpha^{24}, \alpha^{23}, \alpha^{26}, \alpha^{25}, \alpha^{22}, 0, \alpha^{27}, \alpha^{12}, \alpha^{17}, \alpha^{9}, \alpha^{29}, \alpha^{8}, \alpha^{11}, \alpha^{14}, \alpha^{0}, 0, \alpha^{16}, \alpha^{9}, \alpha^{1}, \alpha^{0}, 0, \alpha^{13}, \alpha^{14}, \alpha^{6}, \alpha^{18}, \alpha^{23}, \alpha^{27})$

96. $b = 19, y = (\alpha^{2}, \alpha^{10}, \alpha^{21}, \alpha^{6}, \alpha^{6}, \alpha^{7}, \alpha^{25}, \alpha^{27}, \alpha^{20}, \alpha^{6}, \alpha^{10}, \alpha^{10}, \alpha^{12}, \alpha^{19}, \alpha^{14}, \alpha^{18}, \alpha^{29}, \alpha^{17}, \alpha^{26}, \alpha^{23}, \alpha^{17}, \alpha^{6}, \alpha^{13}, \alpha^{30}, \alpha^{2}, \alpha^{14}, \alpha^{13}, \alpha^{22}, \alpha^{1}, \alpha^{21}, \alpha^{30})$

97. $b = 19, y = (\alpha^{12}, \alpha^{21}, \alpha^{26}, \alpha^{15}, \alpha^{11}, \alpha^{21}, \alpha^{25}, \alpha^{7}, \alpha^{1}, \alpha^{14}, \alpha^{16}, \alpha^{26}, \alpha^{19}, \alpha^{8}, \alpha^{11}, \alpha^{10}, \alpha^{5}, \alpha^{30}, \alpha^{14}, \alpha^{3}, \alpha^{7}, \alpha^{13}, \alpha^{7}, \alpha^{19}, \alpha^{2}, \alpha^{1}, \alpha^{15}, \alpha^{0}, \alpha^{7}, \alpha^{2}, \alpha^{4})$

98. $b = 19, y = (\alpha^{14}, \alpha^{28}, \alpha^{29}, \alpha^{4}, \alpha^{14}, \alpha^{21}, \alpha^{6}, \alpha^{21}, \alpha^{25}, \alpha^{2}, \alpha^{30}, \alpha^{28}, \alpha^{12}, \alpha^{4}, \alpha^{2}, \alpha^{15}, \alpha^{26}, \alpha^{14}, \alpha^{28}, \alpha^{9}, \alpha^{24}, \alpha^{28}, \alpha^{28}, \alpha^{5}, \alpha^{1}, \alpha^{6}, \alpha^{24}, \alpha^{7}, \alpha^{9}, \alpha^{29}, \alpha^{18})$

99. $b = 19, y = (\alpha^{5}, \alpha^{9}, \alpha^{1}, \alpha^{30}, \alpha^{3}, \alpha^{17}, \alpha^{26}, \alpha^{13}, \alpha^{19}, \alpha^{15}, \alpha^{4}, \alpha^{24}, \alpha^{14}, \alpha^{4}, \alpha^{6}, \alpha^{14}, \alpha^{15}, \alpha^{10}, \alpha^{6}, 0, \alpha^{19}, \alpha^{26}, 0, \alpha^{29}, \alpha^{4}, \alpha^{1}, \alpha^{5}, \alpha^{9}, \alpha^{11}, \alpha^{5}, \alpha^{23})$

100. $b = 19, y = (\alpha^{1}, \alpha^{25}, \alpha^{24}, \alpha^{18}, \alpha^{4}, \alpha^{6}, \alpha^{0}, \alpha^{19}, \alpha^{23}, \alpha^{10}, \alpha^{21}, 0, \alpha^{17}, \alpha^{5}, \alpha^{17}, \alpha^{19}, \alpha^{13}, \alpha^{28}, \alpha^{13}, \alpha^{1}, \alpha^{28}, \alpha^{30}, \alpha^{1}, \alpha^{23}, \alpha^{0}, \alpha^{0}, \alpha^{7}, \alpha^{15}, \alpha^{30}, \alpha^{30}, \alpha^{6})$

101. $b = 20, y = (\alpha^{0}, \alpha^{6}, \alpha^{3}, \alpha^{18}, \alpha^{11}, \alpha^{1}, \alpha^{25}, \alpha^{8}, \alpha^{7}, \alpha^{2}, \alpha^{16}, \alpha^{13}, \alpha^{12}, \alpha^{25}, \alpha^{7}, 0, \alpha^{8}, \alpha^{16}, \alpha^{4}, \alpha^{26}, \alpha^{4}, \alpha^{27}, \alpha^{8}, \alpha^{19}, \alpha^{17}, \alpha^{28}, \alpha^{11}, \alpha^{14}, \alpha^{21}, \alpha^{4}, \alpha^{8})$

102. $b = 20, y = (\alpha^{1}, \alpha^{26}, \alpha^{0}, \alpha^{11}, \alpha^{24}, \alpha^{23}, \alpha^{17}, \alpha^{25}, \alpha^{13}, \alpha^{4}, \alpha^{30}, \alpha^{3}, \alpha^{18}, \alpha^{28}, \alpha^{5}, \alpha^{9}, \alpha^{7}, \alpha^{29}, \alpha^{6}, \alpha^{9}, 0, \alpha^{18}, \alpha^{27}, \alpha^{23}, \alpha^{4}, \alpha^{1}, \alpha^{14}, \alpha^{24}, \alpha^{13}, \alpha^{21}, \alpha^{25})$

103. $b = 20, y = (\alpha^{23}, \alpha^{19}, \alpha^{3}, \alpha^{23}, \alpha^{4}, \alpha^{30}, \alpha^{12}, \alpha^{16}, \alpha^{5}, \alpha^{29}, \alpha^{29}, \alpha^{14}, \alpha^{24}, \alpha^{13}, \alpha^{20}, \alpha^{3}, \alpha^{7}, \alpha^{20}, \alpha^{3}, \alpha^{20}, \alpha^{16}, \alpha^{30}, \alpha^{22}, \alpha^{0}, \alpha^{25}, \alpha^{17}, \alpha^{6}, \alpha^{22}, \alpha^{25}, 0, \alpha^{0})$

104. $b = 20, y = (\alpha^{0}, \alpha^{24}, \alpha^{22}, \alpha^{21}, \alpha^{7}, \alpha^{11}, \alpha^{8}, \alpha^{27}, \alpha^{12}, \alpha^{25}, \alpha^{4}, \alpha^{27}, \alpha^{17}, \alpha^{21}, \alpha^{1}, \alpha^{6}, \alpha^{22}, \alpha^{6}, \alpha^{6}, \alpha^{21}, \alpha^{23}, \alpha^{20}, \alpha^{3}, \alpha^{26}, \alpha^{4}, \alpha^{25}, \alpha^{2}, \alpha^{11}, \alpha^{23}, \alpha^{10}, \alpha^{5})$

105. $b = 20, y = (\alpha^{11}, \alpha^{21}, \alpha^{8}, \alpha^{2}, \alpha^{7}, \alpha^{16}, \alpha^{18}, \alpha^{26}, \alpha^{9}, \alpha^{13}, \alpha^{4}, \alpha^{4}, \alpha^{2}, \alpha^{10}, \alpha^{8}, \alpha^{3}, \alpha^{11}, \alpha^{30}, \alpha^{26}, 0, \alpha^{6}, \alpha^{18}, \alpha^{23}, \alpha^{8}, \alpha^{13}, \alpha^{2}, \alpha^{0}, \alpha^{30}, \alpha^{13}, \alpha^{6}, \alpha^{15})$

106. $b = 21, y = (\alpha^{29}, \alpha^{23}, \alpha^{25}, \alpha^{5}, \alpha^{5}, \alpha^{14}, \alpha^{23}, \alpha^{22}, \alpha^{1}, \alpha^{29}, \alpha^{4}, \alpha^{12}, \alpha^{1}, \alpha^{19}, 0, \alpha^{10}, \alpha^{9}, \alpha^{10}, 0, \alpha^{8}, \alpha^{9}, \alpha^{2}, \alpha^{14}, \alpha^{30}, \alpha^{4}, \alpha^{28}, \alpha^{13}, \alpha^{29}, \alpha^{4}, \alpha^{8}, \alpha^{3})$

107. $b = 21, y = (\alpha^{8}, \alpha^{2}, \alpha^{6}, \alpha^{15}, \alpha^{30}, \alpha^{24}, \alpha^{6}, \alpha^{28}, \alpha^{22}, \alpha^{13}, \alpha^{3}, \alpha^{13}, 0, \alpha^{22}, \alpha^{28}, \alpha^{19}, \alpha^{16}, \alpha^{29}, \alpha^{7}, \alpha^{28}, \alpha^{14}, \alpha^{4}, \alpha^{29}, \alpha^{25}, \alpha^{0}, \alpha^{7}, \alpha^{12}, \alpha^{13}, \alpha^{19}, 0, \alpha^{28})$

108. $b = 21, y = (\alpha^{16}, \alpha^{30}, \alpha^{19}, \alpha^{11}, \alpha^{3}, \alpha^{6}, \alpha^{19}, \alpha^{1}, \alpha^{28}, \alpha^{15}, \alpha^{18}, \alpha^{25}, \alpha^{23}, \alpha^{3}, \alpha^{5}, \alpha^{24}, \alpha^{26}, \alpha^{21}, \alpha^{29}, \alpha^{13}, \alpha^{23}, \alpha^{15}, \alpha^{6}, \alpha^{10}, \alpha^{6}, \alpha^{13}, \alpha^{28}, \alpha^{17}, 0, \alpha^{1}, \alpha^{17})$

109. $b = 21, y = (\alpha^{12}, \alpha^{24}, \alpha^{18}, \alpha^{23}, \alpha^{27}, \alpha^{21}, \alpha^{11}, \alpha^{25}, \alpha^{28}, \alpha^{30}, \alpha^{28}, 0, \alpha^{6}, \alpha^{17}, \alpha^{17}, \alpha^{12}, \alpha^{14}, \alpha^{29}, \alpha^{30}, \alpha^{21}, \alpha^{11}, \alpha^{0}, \alpha^{21}, \alpha^{7}, \alpha^{27}, \alpha^{7}, \alpha^{4}, \alpha^{8}, \alpha^{13}, \alpha^{29}, \alpha^{28})$

110. $b = 21, y = (\alpha^{0}, \alpha^{15}, \alpha^{7}, \alpha^{10}, \alpha^{22}, \alpha^{25}, \alpha^{17}, \alpha^{11}, \alpha^{2}, \alpha^{13}, \alpha^{20}, \alpha^{6}, \alpha^{12}, \alpha^{17}, \alpha^{17}, \alpha^{10}, 0, \alpha^{6}, \alpha^{15}, \alpha^{0}, \alpha^{23}, \alpha^{24}, \alpha^{9}, \alpha^{5}, \alpha^{5}, \alpha^{8}, \alpha^{25}, \alpha^{15}, \alpha^{26}, \alpha^{1}, \alpha^{24})$

111. $b = 22, y = (\alpha^{25}, \alpha^{24}, \alpha^{16}, \alpha^{20}, \alpha^{25}, \alpha^{1}, \alpha^{27}, \alpha^{24}, \alpha^{2}, \alpha^{1}, \alpha^{10}, \alpha^{16}, \alpha^{20}, \alpha^{28}, \alpha^{8}, \alpha^{2}, \alpha^{9}, \alpha^{21}, \alpha^{3}, \alpha^{29}, 0, \alpha^{18}, \alpha^{30}, \alpha^{2}, \alpha^{29}, \alpha^{8}, \alpha^{23}, \alpha^{15}, \alpha^{1}, \alpha^{23}, \alpha^{25})$

112. $b = 22, y = (\alpha^{19}, \alpha^{25}, 0, \alpha^{29}, \alpha^{20}, \alpha^{23}, \alpha^{27}, \alpha^{1}, \alpha^{27}, \alpha^{6}, \alpha^{29}, \alpha^{27}, \alpha^{21}, \alpha^{12}, \alpha^{20}, \alpha^{11}, \alpha^{29}, \alpha^{25}, \alpha^{16}, \alpha^{16}, \alpha^{14}, \alpha^{4}, \alpha^{14}, \alpha^{23}, \alpha^{0}, \alpha^{15}, \alpha^{4}, \alpha^{3}, 0, \alpha^{5}, \alpha^{23})$

113. $b = 22, y = (\alpha^{16}, \alpha^{4}, \alpha^{14}, \alpha^{15}, \alpha^{10}, \alpha^{25}, \alpha^{3}, \alpha^{19}, \alpha^{21}, \alpha^{16}, \alpha^{30}, \alpha^{23}, \alpha^{15}, \alpha^{26}, \alpha^{4}, \alpha^{21}, \alpha^{16}, 0, \alpha^{20}, \alpha^{21}, \alpha^{28}, \alpha^{0}, \alpha^{11}, \alpha^{26}, \alpha^{12}, \alpha^{13}, \alpha^{27}, \alpha^{20}, \alpha^{12}, \alpha^{22}, \alpha^{25})$

114. $b = 22, y = (\alpha^{3}, \alpha^{6}, \alpha^{25}, 0, \alpha^{8}, \alpha^{16}, \alpha^{30}, \alpha^{20}, \alpha^{20}, \alpha^{7}, \alpha^{18}, \alpha^{0}, \alpha^{20}, \alpha^{4}, \alpha^{29}, \alpha^{0}, \alpha^{6}, \alpha^{27}, \alpha^{10}, 0, \alpha^{14}, \alpha^{9}, \alpha^{10}, \alpha^{21}, \alpha^{30}, \alpha^{7}, \alpha^{15}, \alpha^{3}, \alpha^{4}, \alpha^{26}, \alpha^{23})$

115. $b = 22, y = (\alpha^{15}, \alpha^{21}, \alpha^{19}, \alpha^{5}, \alpha^{26}, \alpha^{11}, \alpha^{3}, \alpha^{3}, \alpha^{0}, \alpha^{2}, \alpha^{27}, \alpha^{20}, \alpha^{10}, \alpha^{26}, \alpha^{19}, \alpha^{12}, \alpha^{0}, \alpha^{23}, \alpha^{10}, \alpha^{8}, \alpha^{30}, \alpha^{9}, \alpha^{21}, \alpha^{15}, 0, \alpha^{7}, 0, \alpha^{25}, \alpha^{28}, \alpha^{11}, \alpha^{26})$

116. $b = 23, y = (\alpha^{29}, \alpha^{28}, \alpha^{15}, \alpha^{10}, \alpha^{29}, \alpha^{17}, 0, \alpha^{8}, \alpha^{21}, \alpha^{14}, \alpha^{7}, \alpha^{14}, \alpha^{22}, \alpha^{24}, 0, \alpha^{8}, \alpha^{2}, \alpha^{4}, \alpha^{10}, \alpha^{2}, \alpha^{7}, \alpha^{16}, \alpha^{25}, \alpha^{0}, \alpha^{18}, \alpha^{13}, \alpha^{5}, \alpha^{3}, \alpha^{3}, \alpha^{29}, \alpha^{12})$

117. $b = 23, y = (\alpha^{18}, \alpha^{25}, \alpha^{28}, \alpha^{24}, \alpha^{6}, \alpha^{0}, \alpha^{22}, \alpha^{10}, \alpha^{20}, \alpha^{10}, \alpha^{27}, \alpha^{30}, \alpha^{22}, \alpha^{15}, \alpha^{8}, \alpha^{5}, \alpha^{27}, \alpha^{8}, \alpha^{24}, \alpha^{23}, \alpha^{12}, \alpha^{30}, \alpha^{28}, \alpha^{30}, \alpha^{12}, \alpha^{25}, \alpha^{14}, \alpha^{14}, \alpha^{20}, \alpha^{5}, \alpha^{1})$

118. $b = 23, y = (\alpha^{3}, \alpha^{9}, \alpha^{22}, \alpha^{7}, \alpha^{24}, \alpha^{24}, \alpha^{20}, \alpha^{26}, \alpha^{4}, \alpha^{12}, \alpha^{0}, \alpha^{3}, \alpha^{24}, \alpha^{7}, \alpha^{10}, \alpha^{2}, \alpha^{12}, 0, \alpha^{17}, \alpha^{29}, \alpha^{25}, \alpha^{28}, \alpha^{26}, \alpha^{30}, \alpha^{6}, \alpha^{18}, \alpha^{28}, \alpha^{30}, \alpha^{18}, \alpha^{29}, \alpha^{10})$

119. $b = 23, y = (\alpha^{7}, \alpha^{4}, \alpha^{12}, \alpha^{11}, \alpha^{20}, \alpha^{0}, \alpha^{1}, 0, \alpha^{10}, \alpha^{27}, 0, \alpha^{21}, \alpha^{16}, \alpha^{26}, \alpha^{1}, \alpha^{21}, \alpha^{10}, \alpha^{15}, \alpha^{26}, \alpha^{14}, \alpha^{19}, \alpha^{18}, \alpha^{21}, \alpha^{14}, \alpha^{8}, \alpha^{2}, 0, \alpha^{1}, \alpha^{29}, \alpha^{15}, \alpha^{7})$

120. $b = 23, y = (\alpha^{13}, \alpha^{10}, \alpha^{2}, \alpha^{8}, \alpha^{18}, \alpha^{30}, \alpha^{27}, \alpha^{30}, \alpha^{18}, \alpha^{27}, \alpha^{30}, \alpha^{4}, \alpha^{26}, \alpha^{8}, \alpha^{1}, \alpha^{11}, \alpha^{27}, \alpha^{1}, \alpha^{2}, \alpha^{11}, \alpha^{3}, \alpha^{3}, \alpha^{9}, \alpha^{13}, 0, \alpha^{7}, \alpha^{10}, \alpha^{2}, \alpha^{10}, \alpha^{26}, \alpha^{12})$

121. $b = 24, y = (\alpha^{14}, \alpha^{23}, \alpha^{29}, 0, \alpha^{26}, \alpha^{13}, \alpha^{6}, \alpha^{8}, \alpha^{26}, \alpha^{9}, \alpha^{9}, \alpha^{5}, \alpha^{1}, \alpha^{14}, \alpha^{16}, \alpha^{2}, \alpha^{1}, \alpha^{10}, \alpha^{9}, \alpha^{21}, \alpha^{16}, 0, \alpha^{5}, \alpha^{9}, \alpha^{23}, \alpha^{16}, \alpha^{12}, \alpha^{21}, \alpha^{11}, \alpha^{9}, 0)$

122. $b = 24, y = (\alpha^{25}, \alpha^{10}, \alpha^{21}, \alpha^{19}, \alpha^{19}, \alpha^{13}, \alpha^{2}, \alpha^{30}, \alpha^{15}, \alpha^{19}, \alpha^{24}, \alpha^{25}, \alpha^{2}, \alpha^{23}, \alpha^{29}, \alpha^{25}, \alpha^{29}, \alpha^{6}, \alpha^{2}, \alpha^{8}, \alpha^{5}, \alpha^{2}, \alpha^{20}, \alpha^{18}, \alpha^{16}, \alpha^{25}, \alpha^{16}, \alpha^{3}, \alpha^{1}, \alpha^{17}, \alpha^{1})$

123. $b = 24, y = (\alpha^{6}, \alpha^{2}, \alpha^{24}, \alpha^{26}, \alpha^{25}, \alpha^{26}, \alpha^{0}, \alpha^{14}, \alpha^{20}, 0, \alpha^{25}, \alpha^{27}, \alpha^{11}, \alpha^{14}, \alpha^{26}, \alpha^{25}, \alpha^{21}, \alpha^{0}, \alpha^{13}, \alpha^{6}, \alpha^{15}, \alpha^{3}, \alpha^{20}, 0, \alpha^{22}, \alpha^{15}, \alpha^{7}, \alpha^{15}, \alpha^{28}, \alpha^{25}, \alpha^{1})$

124. $b = 24, y = (\alpha^{10}, \alpha^{3}, \alpha^{17}, \alpha^{6}, \alpha^{21}, \alpha^{10}, \alpha^{20}, \alpha^{24}, \alpha^{6}, \alpha^{18}, \alpha^{5}, \alpha^{19}, \alpha^{24}, \alpha^{6}, \alpha^{23}, \alpha^{12}, \alpha^{26}, \alpha^{0}, \alpha^{20}, \alpha^{5}, \alpha^{4}, \alpha^{13}, \alpha^{18}, 0, \alpha^{17}, \alpha^{1}, \alpha^{25}, \alpha^{22}, \alpha^{29}, \alpha^{8}, \alpha^{24})$

125. $b = 24, y = (\alpha^{14}, \alpha^{21}, \alpha^{25}, \alpha^{23}, \alpha^{21}, 0, \alpha^{8}, \alpha^{22}, \alpha^{16}, \alpha^{18}, \alpha^{26}, \alpha^{17}, \alpha^{6}, \alpha^{29}, \alpha^{6}, \alpha^{23}, \alpha^{5}, \alpha^{12}, \alpha^{30}, \alpha^{3}, \alpha^{30}, \alpha^{3}, \alpha^{27}, \alpha^{19}, \alpha^{6}, \alpha^{1}, \alpha^{19}, \alpha^{3}, \alpha^{2}, \alpha^{5}, \alpha^{27})$

126. $b = 25, y = (\alpha^{24}, \alpha^{5}, \alpha^{21}, \alpha^{17}, \alpha^{1}, \alpha^{0}, \alpha^{19}, \alpha^{24}, \alpha^{21}, \alpha^{3}, \alpha^{0}, \alpha^{5}, \alpha^{13}, \alpha^{7}, \alpha^{18}, \alpha^{10}, \alpha^{10}, 0, \alpha^{27}, \alpha^{9}, \alpha^{11}, \alpha^{11}, \alpha^{22}, 0, \alpha^{21}, \alpha^{10}, \alpha^{8}, \alpha^{25}, \alpha^{20}, \alpha^{17}, \alpha^{18})$

127. $b = 25, y = (\alpha^{13}, \alpha^{6}, \alpha^{16}, \alpha^{26}, \alpha^{21}, \alpha^{19}, \alpha^{10}, \alpha^{6}, \alpha^{21}, \alpha^{5}, \alpha^{15}, \alpha^{16}, \alpha^{26}, \alpha^{18}, \alpha^{17}, \alpha^{26}, \alpha^{3}, \alpha^{22}, \alpha^{30}, \alpha^{0}, \alpha^{15}, \alpha^{13}, \alpha^{25}, \alpha^{30}, \alpha^{17}, \alpha^{20}, \alpha^{13}, \alpha^{19}, \alpha^{1}, \alpha^{10}, \alpha^{25})$

128. $b = 25, y = (\alpha^{0}, \alpha^{9}, \alpha^{14}, \alpha^{23}, \alpha^{2}, \alpha^{25}, \alpha^{14}, \alpha^{30}, \alpha^{23}, \alpha^{3}, \alpha^{4}, \alpha^{8}, \alpha^{11}, \alpha^{22}, \alpha^{26}, \alpha^{19}, \alpha^{7}, \alpha^{6}, \alpha^{2}, \alpha^{3}, \alpha^{1}, \alpha^{29}, \alpha^{29}, \alpha^{13}, \alpha^{5}, \alpha^{14}, \alpha^{13}, \alpha^{17}, \alpha^{24}, \alpha^{19}, \alpha^{14})$

129. $b = 25, y = (\alpha^{6}, \alpha^{25}, \alpha^{4}, \alpha^{4}, \alpha^{21}, \alpha^{6}, \alpha^{12}, \alpha^{19}, \alpha^{10}, \alpha^{21}, \alpha^{24}, \alpha^{23}, \alpha^{19}, \alpha^{24}, \alpha^{6}, \alpha^{28}, \alpha^{22}, \alpha^{22}, \alpha^{14}, \alpha^{7}, \alpha^{15}, \alpha^{29}, \alpha^{21}, \alpha^{10}, 0, \alpha^{3}, \alpha^{22}, \alpha^{4}, \alpha^{18}, \alpha^{7}, \alpha^{8})$

130. $b = 25, y = (\alpha^{7}, \alpha^{8}, \alpha^{27}, \alpha^{30}, \alpha^{8}, \alpha^{10}, 0, \alpha^{27}, \alpha^{18}, \alpha^{4}, \alpha^{4}, \alpha^{10}, \alpha^{28}, \alpha^{5}, \alpha^{14}, \alpha^{18}, \alpha^{27}, \alpha^{13}, \alpha^{2}, \alpha^{30}, \alpha^{27}, \alpha^{4}, \alpha^{16}, \alpha^{10}, \alpha^{1}, \alpha^{16}, \alpha^{18}, \alpha^{3}, \alpha^{27}, 0, \alpha^{17})$

131. $b = 26, y = (\alpha^{7}, \alpha^{2}, \alpha^{6}, \alpha^{21}, \alpha^{1}, \alpha^{8}, \alpha^{8}, \alpha^{5}, \alpha^{29}, \alpha^{9}, \alpha^{29}, \alpha^{10}, \alpha^{18}, \alpha^{22}, \alpha^{8}, \alpha^{21}, \alpha^{16}, \alpha^{22}, \alpha^{7}, \alpha^{28}, \alpha^{12}, \alpha^{20}, \alpha^{0}, \alpha^{13}, \alpha^{10}, \alpha^{12}, \alpha^{29}, \alpha^{27}, \alpha^{6}, \alpha^{30}, \alpha^{15})$

132. $b = 26, y = (\alpha^{12}, \alpha^{21}, \alpha^{24}, \alpha^{12}, \alpha^{16}, \alpha^{12}, \alpha^{19}, \alpha^{7}, \alpha^{11}, \alpha^{24}, \alpha^{9}, \alpha^{3}, \alpha^{9}, \alpha^{4}, \alpha^{14}, \alpha^{25}, \alpha^{13}, \alpha^{17}, \alpha^{18}, \alpha^{17}, \alpha^{9}, \alpha^{14}, \alpha^{29}, \alpha^{30}, \alpha^{15}, \alpha^{3}, \alpha^{29}, \alpha^{29}, \alpha^{8}, \alpha^{29}, \alpha^{0})$

133. $b = 26, y = (\alpha^{9}, \alpha^{11}, \alpha^{5}, 0, \alpha^{20}, \alpha^{29}, \alpha^{27}, \alpha^{16}, \alpha^{26}, \alpha^{17}, \alpha^{20}, \alpha^{14}, \alpha^{10}, \alpha^{12}, \alpha^{9}, \alpha^{7}, \alpha^{15}, \alpha^{0}, \alpha^{24}, \alpha^{27}, \alpha^{6}, \alpha^{9}, \alpha^{11}, \alpha^{14}, \alpha^{16}, \alpha^{27}, \alpha^{10}, \alpha^{17}, \alpha^{30}, \alpha^{22}, \alpha^{11})$

134. $b = 26, y = (\alpha^{21}, \alpha^{20}, \alpha^{9}, \alpha^{11}, \alpha^{28}, \alpha^{24}, \alpha^{5}, \alpha^{10}, \alpha^{12}, \alpha^{1}, \alpha^{8}, \alpha^{14}, \alpha^{21}, \alpha^{22}, \alpha^{27}, \alpha^{21}, \alpha^{8}, \alpha^{30}, \alpha^{12}, 0, \alpha^{17}, \alpha^{10}, \alpha^{8}, \alpha^{20}, \alpha^{23}, \alpha^{15}, \alpha^{6}, \alpha^{30}, \alpha^{21}, \alpha^{10}, \alpha^{21})$

135. $b = 26, y = (\alpha^{23}, \alpha^{8}, \alpha^{28}, \alpha^{29}, \alpha^{19}, \alpha^{8}, \alpha^{27}, \alpha^{26}, \alpha^{3}, \alpha^{30}, \alpha^{25}, \alpha^{13}, \alpha^{4}, \alpha^{17}, \alpha^{25}, \alpha^{24}, \alpha^{23}, \alpha^{27}, \alpha^{9}, \alpha^{29}, \alpha^{14}, \alpha^{10}, \alpha^{18}, \alpha^{10}, \alpha^{20}, \alpha^{29}, \alpha^{16}, \alpha^{15}, \alpha^{4}, \alpha^{1}, \alpha^{21})$

136. $b = 27, y = (\alpha^{6}, \alpha^{23}, \alpha^{9}, \alpha^{23}, \alpha^{11}, \alpha^{24}, \alpha^{23}, \alpha^{26}, \alpha^{21}, \alpha^{10}, \alpha^{0}, \alpha^{10}, \alpha^{11}, \alpha^{15}, \alpha^{21}, \alpha^{25}, \alpha^{24}, \alpha^{7}, \alpha^{18}, \alpha^{30}, \alpha^{7}, \alpha^{30}, \alpha^{23}, \alpha^{29}, \alpha^{17}, \alpha^{10}, \alpha^{0}, \alpha^{3}, \alpha^{10}, \alpha^{7}, \alpha^{26})$

137. $b = 27, y = (\alpha^{14}, \alpha^{21}, \alpha^{17}, \alpha^{28}, \alpha^{5}, \alpha^{3}, \alpha^{9}, \alpha^{6}, \alpha^{19}, \alpha^{30}, \alpha^{18}, \alpha^{1}, \alpha^{24}, \alpha^{30}, \alpha^{29}, \alpha^{29}, \alpha^{15}, \alpha^{16}, 0, \alpha^{7}, \alpha^{19}, \alpha^{26}, \alpha^{4}, \alpha^{14}, \alpha^{13}, \alpha^{23}, \alpha^{22}, \alpha^{23}, \alpha^{17}, \alpha^{21}, \alpha^{2})$

138. $b = 27, y = (\alpha^{0}, \alpha^{17}, \alpha^{10}, \alpha^{8}, \alpha^{20}, \alpha^{28}, \alpha^{15}, \alpha^{21}, \alpha^{23}, \alpha^{22}, \alpha^{26}, \alpha^{16}, \alpha^{14}, \alpha^{11}, \alpha^{11}, \alpha^{28}, \alpha^{22}, \alpha^{4}, \alpha^{11}, \alpha^{2}, 0, \alpha^{26}, \alpha^{28}, \alpha^{29}, \alpha^{8}, \alpha^{0}, \alpha^{30}, \alpha^{6}, \alpha^{9}, \alpha^{12}, \alpha^{10})$

139. $b = 27, y = (\alpha^{22}, \alpha^{11}, \alpha^{7}, \alpha^{26}, \alpha^{21}, \alpha^{7}, \alpha^{18}, \alpha^{23}, \alpha^{27}, \alpha^{21}, \alpha^{9}, \alpha^{10}, \alpha^{8}, \alpha^{24}, \alpha^{14}, \alpha^{6}, \alpha^{8}, \alpha^{8}, \alpha^{3}, \alpha^{16}, \alpha^{25}, \alpha^{4}, \alpha^{1}, \alpha^{4}, \alpha^{17}, 0, \alpha^{15}, \alpha^{30}, \alpha^{2}, \alpha^{16}, \alpha^{19})$

140. $b = 27, y = (\alpha^{1}, \alpha^{15}, \alpha^{18}, \alpha^{9}, \alpha^{12}, \alpha^{23}, 0, \alpha^{16}, \alpha^{19}, \alpha^{10}, \alpha^{21}, \alpha^{29}, \alpha^{26}, \alpha^{5}, \alpha^{4}, \alpha^{8}, \alpha^{9}, \alpha^{2}, \alpha^{18}, \alpha^{10}, \alpha^{18}, \alpha^{16}, \alpha^{22}, \alpha^{18}, \alpha^{10}, \alpha^{19}, \alpha^{30}, \alpha^{7}, 0, \alpha^{14}, \alpha^{5})$

141. $b = 28, y = (\alpha^{3}, \alpha^{6}, \alpha^{20}, \alpha^{16}, \alpha^{8}, \alpha^{5}, \alpha^{27}, \alpha^{5}, \alpha^{4}, \alpha^{9}, \alpha^{26}, \alpha^{6}, \alpha^{15}, \alpha^{19}, \alpha^{1}, \alpha^{18}, \alpha^{13}, \alpha^{5}, \alpha^{24}, \alpha^{23}, \alpha^{13}, \alpha^{23}, \alpha^{11}, \alpha^{1}, \alpha^{21}, \alpha^{30}, \alpha^{30}, \alpha^{19}, \alpha^{1}, \alpha^{2}, \alpha^{30})$

142. $b = 28, y = (\alpha^{18}, \alpha^{27}, 0, \alpha^{3}, \alpha^{15}, \alpha^{7}, \alpha^{11}, \alpha^{26}, \alpha^{30}, \alpha^{0}, \alpha^{26}, \alpha^{21}, \alpha^{6}, \alpha^{15}, \alpha^{25}, \alpha^{11}, \alpha^{2}, \alpha^{9}, \alpha^{20}, \alpha^{23}, \alpha^{15}, \alpha^{2}, \alpha^{2}, \alpha^{24}, \alpha^{22}, \alpha^{16}, \alpha^{6}, \alpha^{24}, \alpha^{6}, \alpha^{3}, \alpha^{10})$

143. $b = 28, y = (\alpha^{14}, \alpha^{14}, \alpha^{28}, \alpha^{5}, \alpha^{26}, \alpha^{3}, \alpha^{8}, \alpha^{10}, \alpha^{12}, \alpha^{24}, \alpha^{16}, 0, \alpha^{5}, \alpha^{17}, \alpha^{14}, \alpha^{11}, \alpha^{11}, \alpha^{3}, \alpha^{14}, \alpha^{10}, \alpha^{25}, 0, \alpha^{29}, \alpha^{18}, \alpha^{4}, \alpha^{17}, \alpha^{0}, \alpha^{15}, \alpha^{13}, \alpha^{4}, \alpha^{8})$

144. $b = 28, y = (\alpha^{14}, \alpha^{6}, \alpha^{15}, \alpha^{7}, \alpha^{16}, \alpha^{22}, \alpha^{21}, \alpha^{18}, \alpha^{29}, \alpha^{4}, \alpha^{16}, \alpha^{19}, \alpha^{19}, \alpha^{29}, \alpha^{21}, \alpha^{7}, \alpha^{6}, \alpha^{12}, \alpha^{29}, \alpha^{20}, \alpha^{25}, \alpha^{9}, \alpha^{15}, \alpha^{23}, \alpha^{4}, \alpha^{12}, \alpha^{20}, \alpha^{3}, \alpha^{30}, \alpha^{10}, \alpha^{2})$

145. $b = 28, y = (\alpha^{12}, \alpha^{17}, \alpha^{12}, \alpha^{22}, \alpha^{25}, 0, \alpha^{15}, \alpha^{24}, \alpha^{16}, \alpha^{16}, \alpha^{17}, \alpha^{27}, \alpha^{8}, 0, \alpha^{10}, \alpha^{6}, \alpha^{9}, \alpha^{12}, \alpha^{21}, \alpha^{15}, \alpha^{28}, \alpha^{4}, \alpha^{26}, \alpha^{14}, \alpha^{4}, \alpha^{14}, \alpha^{3}, \alpha^{6}, \alpha^{0}, \alpha^{30}, \alpha^{0})$

146. $b = 29, y = (\alpha^{22}, \alpha^{30}, \alpha^{10}, \alpha^{19}, \alpha^{1}, \alpha^{0}, \alpha^{24}, \alpha^{8}, \alpha^{27}, \alpha^{5}, \alpha^{28}, 0, \alpha^{22}, \alpha^{11}, \alpha^{20}, \alpha^{22}, \alpha^{14}, \alpha^{2}, \alpha^{13}, \alpha^{21}, \alpha^{3}, \alpha^{3}, \alpha^{28}, \alpha^{4}, \alpha^{13}, \alpha^{3}, \alpha^{27}, \alpha^{0}, \alpha^{28}, \alpha^{0}, \alpha^{6})$

147. $b = 29, y = (\alpha^{16}, \alpha^{25}, \alpha^{18}, \alpha^{17}, \alpha^{16}, \alpha^{11}, \alpha^{2}, \alpha^{20}, \alpha^{8}, \alpha^{1}, \alpha^{21}, \alpha^{21}, \alpha^{5}, 0, \alpha^{29}, \alpha^{13}, \alpha^{24}, \alpha^{8}, \alpha^{28}, \alpha^{11}, \alpha^{20}, \alpha^{29}, \alpha^{23}, \alpha^{21}, \alpha^{14}, \alpha^{17}, \alpha^{7}, \alpha^{9}, \alpha^{26}, \alpha^{19}, \alpha^{23})$

148. $b = 29, y = (\alpha^{4}, \alpha^{13}, \alpha^{8}, \alpha^{2}, \alpha^{6}, \alpha^{17}, \alpha^{17}, \alpha^{0}, \alpha^{1}, \alpha^{25}, \alpha^{1}, \alpha^{17}, \alpha^{2}, \alpha^{9}, \alpha^{7}, \alpha^{24}, \alpha^{5}, \alpha^{4}, \alpha^{15}, \alpha^{24}, \alpha^{12}, \alpha^{9}, \alpha^{10}, \alpha^{16}, \alpha^{28}, \alpha^{25}, \alpha^{22}, \alpha^{12}, \alpha^{14}, \alpha^{23}, \alpha^{10})$

149. $b = 29, y = (\alpha^{28}, \alpha^{29}, \alpha^{22}, \alpha^{9}, \alpha^{7}, \alpha^{10}, \alpha^{3}, \alpha^{17}, \alpha^{24}, \alpha^{5}, \alpha^{17}, \alpha^{9}, \alpha^{21}, \alpha^{7}, \alpha^{19}, \alpha^{12}, \alpha^{5}, \alpha^{7}, \alpha^{24}, \alpha^{25}, \alpha^{9}, \alpha^{10}, \alpha^{26}, \alpha^{1}, \alpha^{23}, 0, \alpha^{5}, \alpha^{12}, \alpha^{21}, \alpha^{28}, \alpha^{4})$

150. $b = 29, y = (\alpha^{20}, \alpha^{5}, \alpha^{7}, \alpha^{6}, \alpha^{30}, \alpha^{18}, \alpha^{15}, \alpha^{21}, \alpha^{1}, \alpha^{28}, \alpha^{21}, \alpha^{16}, \alpha^{10}, \alpha^{19}, \alpha^{15}, \alpha^{23}, \alpha^{25}, \alpha^{21}, \alpha^{5}, \alpha^{6}, \alpha^{11}, \alpha^{3}, \alpha^{7}, \alpha^{17}, \alpha^{2}, \alpha^{9}, \alpha^{14}, 0, \alpha^{3}, \alpha^{3}, \alpha^{6})$

151. $b = 30$, $y = (\alpha^{0}, \alpha^{0}, \alpha^{14}, \alpha^{30}, \alpha^{7}, \alpha^{30}, \alpha^{29}, \alpha^{26}, \alpha^{21}, \alpha^{17}, \alpha^{13}, \alpha^{7}, \alpha^{27}, \alpha^{13}, \alpha^{11}, \alpha^{22}, \alpha^{6}, \alpha^{0}, \alpha^{3}, \alpha^{26}, \alpha^{24}, \alpha^{20}, \alpha^{1}, \alpha^{1}, \alpha^{26}, \alpha^{1}, \alpha^{0}, \alpha^{17}, \alpha^{27}, \alpha^{5}, \alpha^{4})$

152. $b = 30$, $y = (\alpha^{2}, \alpha^{20}, \alpha^{21}, \alpha^{23}, \alpha^{10}, \alpha^{0}, \alpha^{19}, \alpha^{22}, \alpha^{0}, \alpha^{6}, \alpha^{23}, \alpha^{9}, \alpha^{8}, \alpha^{10}, \alpha^{20}, \alpha^{3}, \alpha^{5}, \alpha^{2}, \alpha^{22}, \alpha^{22}, \alpha^{2}, 0, \alpha^{29}, \alpha^{28}, \alpha^{12}, \alpha^{24}, \alpha^{4}, \alpha^{16}, \alpha^{5}, \alpha^{28}, \alpha^{23})$

153. $b = 30$, $y = (\alpha^{24}, \alpha^{16}, \alpha^{4}, \alpha^{14}, \alpha^{17}, \alpha^{13}, \alpha^{20}, \alpha^{13}, \alpha^{6}, \alpha^{12}, \alpha^{24}, \alpha^{10}, \alpha^{1}, \alpha^{5}, \alpha^{28}, \alpha^{17}, \alpha^{13}, 0, \alpha^{16}, \alpha^{11}, \alpha^{24}, \alpha^{15}, \alpha^{25}, \alpha^{27}, 0, \alpha^{14}, \alpha^{12}, \alpha^{10}, \alpha^{21}, \alpha^{26}, \alpha^{26})$

154. $b = 30$, $y = (\alpha^{24}, \alpha^{12}, \alpha^{15}, \alpha^{13}, \alpha^{26}, \alpha^{16}, \alpha^{12}, \alpha^{6}, \alpha^{14}, \alpha^{25}, \alpha^{19}, \alpha^{28}, \alpha^{16}, \alpha^{30}, \alpha^{21}, \alpha^{19}, \alpha^{27}, \alpha^{2}, \alpha^{14}, \alpha^{5}, \alpha^{30}, \alpha^{9}, \alpha^{21}, \alpha^{8}, \alpha^{29}, \alpha^{6}, \alpha^{22}, \alpha^{11}, \alpha^{23}, \alpha^{19}, \alpha^{7})$

155. $b = 30$, $y = (\alpha^{14}, \alpha^{4}, \alpha^{8}, \alpha^{9}, \alpha^{14}, \alpha^{27}, \alpha^{23}, \alpha^{1}, \alpha^{11}, \alpha^{20}, \alpha^{23}, \alpha^{28}, \alpha^{19}, \alpha^{10}, \alpha^{12}, \alpha^{22}, \alpha^{27}, \alpha^{25}, \alpha^{8}, \alpha^{14}, \alpha^{19}, \alpha^{14}, \alpha^{14}, \alpha^{2}, \alpha^{4}, \alpha^{6}, \alpha^{11}, \alpha^{13}, 0, \alpha^{9}, \alpha^{13})$