

26.7

1 α) $\alpha^3 \cdot \alpha^{-7} = \alpha^{-4}$

β) $\frac{\alpha^5}{\alpha^{-4}} = \alpha^9$

γ) $(\alpha^{-6})^{-2} = \alpha^{12}$

δ) $\frac{(\alpha^{-1})^5 \cdot \alpha^6}{(\alpha^{-3})^2} = \alpha^7$

ε) $(\alpha^{-3}\beta^5)^{-1} = \alpha^3 \cdot \beta^{-5}$

στ) $\alpha^{7x+3} = \alpha^{7x} \cdot \alpha^3$

2 α^6

3 α^8

4 α^8

5 α^8

6 α^3

7 α^3

8 α^{-11}

9 α^{-7}

10 α^{-6}

11 α^{-14}

12 α^{11}

13 α^{13}

14 α^{12}

15 α^{-8}

16 α^{-6}

17 α^{-6}

18 α^{x+2}

19 α^8

20 α^{x-3}

21 α^{2x+1}

22 α^{x+7}

23 α^2

24 α^5

25 α^{-5}

26 α^{-7}

27 α^3

28 α^{-13}

29 α^{-10}

30 α^{-10}

31 α^{x-3}

32 α^{2x-1}

33 α^{2x+3}

34 α^{6x+1}

35 α^{28}

36 α^{-10}

37 α^{-18}

38 α^{15}

39 α^{-12}

40 α^{-12}

41 α^{48}

42 α^{4x}

43 α^{-7}

44 α^{10}

45 α^{-13}

46 $\alpha^{12}\beta^{16}$

47 $\alpha^{-2}\beta^3$

48 $\alpha^{10}\beta^{-12}$

49 $\alpha^{14}\beta^2$

50 $\alpha^x \alpha^1$

51 $\alpha^{2x} \alpha^{11}$

52 $\alpha^{3x} \alpha$

53 $\frac{\alpha^x}{\alpha^2}$

54 $\frac{\alpha^{3x}}{\alpha^4}$

55 $\frac{\alpha^{7x}}{\alpha^8}$

56 $2^{\frac{3}{x}}$

57 $7^{\frac{x+1}{5}}$

58 5^9

59 2^{11}