

Name _____

Section number _____

TA _____

Chem100 Worksheet 1b

Review of algebra

Solve the following equations:

1. $n=g/w$ Solve for w

2. $M=n/V$ Solve for V

3. $PV=nRT$ Solve for V

4. $y=ax+b$ Solve for b

5. $M_1V_1=M_2V_2$ Solve for V_2

6. $y=(ax+b)/c$ Solve for a

7. $y+2=3y-6$ Solve for y

8. $a^2b-c=d$ Solve for a

9. $(x-1)=3(x+2)$ Solve for x

10. $x^2=100$ Solve for x

Using your scientific calculator, perform the following operations:

11. $(3.4 \times 10^3) \times (1.05 \times 10^{-2})=$

12. $(4.56 \times 10^8) + (8.33 \times 10^9)=$

13. $(7.104 \times 10^{-5}) - (9.336 \times 10^{-3})=$

14. $(1.42 \times 10^6) / (9.5 \times 10^{-2})=$

Find the square root for each of the following numbers:

15. 81

16. 1026

17. 7.14×10^{22}

18. 0.00395

Calculate the following:

19. $(17.43)^5$

20. $(8.93 \times 10^{-1})^4$

Find the log or antilog for these numbers:

21. $\log 7.6 \times 10^{-3}$

22. $\log 3.4 \times 10^4$

23. $\text{antilog } 1.42 \times 10^1$

24. $\text{antilog } 2.1 \times 10^{-5}$