

Name _____
Date _____

Introduction To Technical Mathematics
Class #3B

Chapter 5 – 1: Verbal Phrases and Equations.

Section 1. Translations – Verbal → Algebraic Phrases.

- | | | | |
|-----|--|-----|-------|
| 1. | The sum of b and 8 | 1. | _____ |
| 2. | The product of x and y | 2. | _____ |
| 3. | 12 increased by 1 | 3. | _____ |
| 4. | 8 divided by y | 4. | _____ |
| 5. | the product of 2c and 3d | 5. | _____ |
| 6. | d less than c | 6. | _____ |
| 7. | one-third of z | 7. | _____ |
| 8. | a number that exceeds m by 4 | 8. | _____ |
| 9. | 5 times x, increased by 2 | 9. | _____ |
| 10. | 36 divided by the sum of t and u. | 10. | _____ |
| 11. | the product of x and y, decreased by one-half the sum of x and y | 11. | _____ |
| 12. | 4 less than twice the sum of a and 5. | 12. | _____ |
| 13. | x diminished by y. | 13. | _____ |
| 14. | the quotient of s and t | 14. | _____ |
| 15. | 5 less than d | 15. | _____ |
| 16. | y multiplied by 10 | 16. | _____ |
| 17. | t more than w | 17. | _____ |
| 18. | twice the difference of p and q | 18. | _____ |
| 19. | x subtracted from 5 | 19. | _____ |
| 20. | one-half of the sum of L + W. | 20. | _____ |

Chapter 5 – 2: Literal Equations and Formulas

Section 2. Simplify (solve) each equation for the “asked for” variable.

1. Solve for C : $K = C + 273$ 1. _____

2. Solve for y : $ay + b = 2c$ 2. _____

3. Solve for L : $M = R(L - x)$ 3. _____

4. Solve for B : $q = \frac{KA(B - C)}{L}$ 4. _____

5. Solve for s_1 : $as_1 + cs_2 = 3a(s_1 + a)$ 5. _____

6. Solve for r_1 : $L = 3.14(r_1 + r_2) + 2d$ 6. _____

7. Solve for t : $d = 3v_1 + 3v_2 + v_2t$

7. _____

8. Solve for p : $I = p + prt$

8. _____

9. Solve for t : $Ct + r = t + b$

9. _____

Section 3. HW Section

Page(s)	Section(s)	Problem(s)
145	5 - 1	1 → 43 Odd
149 → 150	5 - 2	1, 5, 9, 13, 17, 21, 25, 33, 45, 47

*Consider E.O.O. (every other odd) problem.