

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.