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PLTW Engineering Formula Sheet v20.0 y x (11.1) $A \epsilon = \frac{F}{A}$ (11.2) $\epsilon = \frac{\delta}{L_0}$ (11.3) $E = \frac{F_2 - F_1}{A(L_2 - L_1)}$ (11.4)

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Engineering Formula Sheet. Probability. Conditional Probability. Binomial Probability (order doesn't matter) $P_k = \binom{n}{k} p^k (1-p)^{n-k}$ k (= binomial probability of k successes in n trials p = probability of a success $-p$ = probability of failure k = number of successes n = number of trials. Independent Events. $P(A \text{ and } B \text{ and } C) = P(A) \cdot P(B) \cdot P(C)$

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PLTW, Inc. Engineering Formulas f Numbers Less Than One Numbers Greater Than One Power of 10 Prefix Abbreviation Power of 10 Prefix Abbreviation 10⁻¹ deci- d 10¹ deca- da 10⁻² centi- c 10² hecto- h 10⁻³ milli- m 10³ kilo- k 10⁻⁶ micro- μ 10⁶ Mega- M 10⁻⁹ nano- n 10⁹ Giga- G 10⁻¹² pico- p 10¹² Tera- T 10⁻¹⁵ femto- f 10¹⁵ Peta- P

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PHYS 2310 Engineering Physics I Formula Sheets

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Science for Engineering

IFE Formula Sheet v1.4- Fire Engineering Science Page 7. Where: PE = Potential (gravitational) energy in Joules (J) m = Mass in Kilogrammes (Kg) 2g = Acceleration due to gravity (constant) in metres/second/second (m/s²) (use 9.81 m/s²) H = Height of object above datum in metres (m)

[FORMULA BOOKLET]

Formulas Used: Aviation Gasoline weight per gallon(gw)=6.00Jet A weight per gallon(dw)=6.84Total Capacity (AvGas) Fuel Load Weight=(Fuel weight)* (gw)GPH=start fuel-end fuel NOTE:Be sure to take into consideration winds aloft, restricted zones, climb time and fuel for a margin of safety when calculating requirements.

List of All Mechanical Engineering Formulas

iii PREFACE The Fundamentals of Engineering (FE) Supplied-Reference Handbook is the only reference material allowed in the FE examination. Many examinees find that it is helpful to review this book before exam day to become familiar with the reference material it contains.

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