1-400mm Phys Final It 3 60=8.85×10012 C Josh Whiteheard (E(2/t) = Emay Cos (kz-WE)) (W=211.+=4.71x10'S F- C - 3x108 mg

- 7.5x10H Hz

- 271 - 72-0.016 b) B=Bmax Cos (kz-wt) Bmax = Emay = 600 m = 2.00x10-6 V.s B: 2.00×10 COS (24 0.0167-4.71×1015 t) A EM nume direction = EXB .. B USCITAtes in X-Z Plane Non = NE +NB = 5 EOE + 5 NO B = 58.85×10 Nm = (600 ×) 5 + 1 1 = 5EEL I = Wary - C = 0.796 - 3×108 = 2.39×108 Nm = = 0.796 N

D) P= I : Man : 0.796 B