1) Determinants (Adolitional Exercises) Suppose A, B are (nxn) real madrices Such that A+iB 2s invertible Thow that det (-B B) > 0. (Imp. in geometry) 2) The numbers 20604, 53227, 25755, 20927 and 78421 are all divisible by 17. Show That 3) Show that a Necessary Condition for $x^2 + ax + b = 0$ to have a Common root 28 That $\begin{vmatrix} 1 & a & b & 0 \\ 0 & 1 & a & b \\ 0 & 1 & b & 2 & 0 \\ 0 & 1$ in 7, 73, J3, J4 with non trival solution C^{3}, C^{2}, C, I (4) Tut Sheet 3: Q2, Q3, Q9, Q11.