

MATHEMATICS 309B Autumn, 2007

Assignment II: §7.5 # 17. The three eigenvalues for A are $r = 1, 2, 3$

Assignment II: §7.5 # 10. The characteristic polynomial is $r^2 + r(i - 1) - i$.

The roots are $r = \frac{(-i+1) \pm \sqrt{(i-1)^2 + 4i}}{2} = \frac{(-i+1) \pm \sqrt{2i}}{2} = \frac{(-i+1) \pm (1+i)}{2}$

So $r_1 = 1, \quad r_2 = -i$