COMPUTER ENGINEERING Bild GSEDAG * Solve just four questions [3/11/2017] 1) Show that V16+2x = 9-x2 has at least one real root (Use IVT)
Give detailed solution and express IVT in details. 2) Show that for any numbers a and b & & & & the given inequality is the Isinb-smal < (b-a) 3) $y = \ln \frac{1}{\chi^2}$ Determine asymptote(s) given function. (if any) 4) A particle on y=2, $x^{3/2}$ is approaching origin by the rate of change of 16 m/sec Rate of change of the distance between the parameter f(x)5) If $f^{2}dt = x\cos(\pi x)$ between the particle then evaluate f (4).

6) Evaluate $\int \frac{\ln x}{x + x \ln x} dx$

50 min. Emre GÜVEN