




Benha University Faculty of Engineering- Shoubra (Electrical)Engineering Department		Mid term exam Mathematics (3-B) Duration : 1 hours	Date: March 2013 Code: EMP 272
Answer all the following questions	No. of questions : 2	Total Mark: 20	
<p>I) Solve the system of equations $-2y + 10z = 47 - 3x$, $5x + 2z = 15$, $x - 2z = 5y - 24$ using</p> <p>a) Crout's method b) Gauss seidel method [take $(y, z)^{(0)} = (2.853, 5.221)$]</p>			
<p>II) Solve the following D.E. using Picard method and find y(0.2) using Euler { take h = 0.05}</p> $x' = (y - 3t^2)(x - t^2) + 2, \quad y' = 3(x - t^2), \quad x(0) = 0, y(0) = 1$			
<i>Dr. eng Khaled El Naggat</i>			

Benha University Faculty of Engineering- Shoubra (Electrical)Engineering Department		Mid term exam Mathematics (3-B) Duration : 1 hours	Date: March 2013 Code: EMP 272
Answer all the following questions	No. of questions : 2	Total Mark: 20	
<p>I) Solve the system of equations $-2y + 10z = 47 - 3x$, $5x + 2z = 15$, $x - 2z = 5y - 24$ using</p> <p>a) Crout's method b) Gauss seidel method [take $(y, z)^{(0)} = (2.853, 5.221)$]</p>			
<p>II) Solve the following D.E. using Picard method and find y(0.2) using Euler { take h = 0.05}</p> $x' = (y - 3t^2)(x - t^2) + 2, \quad y' = 3(x - t^2), \quad x(0) = 0, y(0) = 1$			
<i>Dr. eng Khaled El Naggat</i>			

Benha University Faculty of Engineering- Shoubra (Electrical)Engineering Department		Mid term exam Mathematics (3-B) Duration : 1 hours	Date: March 2013 Code: EMP 272
Answer all the following questions	No. of questions : 2	Total Mark: 20	
<p>I) Solve the system of equations $-2y + 10z = 47 - 3x$, $5x + 2z = 15$, $x - 2z = 5y - 24$ using</p> <p>a) Crout's method b) Gauss seidel method [take $(y, z)^{(0)} = (2.853, 5.221)$]</p>			
<p>II) Solve the following D.E. using Picard method and find y(0.2) using Euler { take h = 0.05}</p> $x' = (y - 3t^2)(x - t^2) + 2, \quad y' = 3(x - t^2), \quad x(0) = 0, y(0) = 1$			
<i>Dr. eng Khaled El Naggat</i>			