Good Luck	Дг.	Dr. Mohamed Eid		
(c) $f(t) = \sqrt{t-2} + \sin(t - t)$	2), t > 2.			
, , , , , , , , , , , , , , , , , , , ,	(b) $f(t) = t \sin t +$	- e²¹ cost		
[3]Find the Laplace transform of the following functions:				
(a) $\int_0^\infty \sqrt{x} e^{-2x} dx$	(b) $\int_0^\infty \frac{1}{1+x^3} dx$ (c) $\int_0^2 \frac{1}{\sqrt{x^2}} dx$	$\frac{x^2}{2-x}$ dx		
[2]Find the following integrals:		2		
(a) $y^+ xy = 0$	(b) $x^2y^ xy + (x+1)y =$	= 0		
[1]Solve the following equation	• 1			
1 <sup>St</sup> Year- Elec. Eng. Power	Mid-Term Exam – Math 2 (B)	1 Hour	(April 2012)	