Ma 221		Exam IB	<b>10S</b>
Name:			
Lecture Section:			
I pledge my honor that I	•	·	
You may not use a	l credit. Credit wil	one, or computer while taki	ng this exam. All work must be reasonably supported. When
Score on Problem #	:1		
#.	2		
#	3		
#-	4		
Total Score			

Name	Lecturer:

Lecture Section: \_\_\_\_\_\_

1 [25 pts.] Solve

$$(2+y^2) + 2(x-1)y\frac{dy}{dx} = 0, \quad y(2) = 1.$$

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2 [25 pts.] Solve

$$ty' + 5y = 7t^2, \quad y(1) = 3$$

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$$(2y - \cos y)y' + 2t = \cos t, \quad y(0) = \pi$$

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$$\frac{dy}{dx} = 3x^{-1} + 2e^{-y}, \quad y(1) = 0$$

Hint: Use the substitution  $z = e^y$ .