	<u>Name:</u> <u>ID:</u> <u>Sec:</u> 2 , 3 <u>serial:</u>	
--	--	--

MATH 202 Term 052 QUIZ 2 (form A)

1) Determine whether the differential equation is separable or non-separable. (show your work)

(I)
$$(e^x + e^{-x})y' - y^2 = 0$$

(II)
$$y'(xy-2x+4y-8) = (xy+3x-y-3)$$

$$e^{xy} y dy = (1 + e^{-2x}) dx$$

2) Solve the given linear differential equation (show all your work) (problem # 20 / page 65)

$$(x+2)^2$$
 $y' = 5-8y-4xy$