

KFUPM – Math 202– Quiz 2

Name : ..... ID #.....Sec# ..... Serial #: .....

**Question 1** [5 points]: Solve the following differential equation by separation of variables.

$$x(1 + y)dx = y(1 + x^2)^{1/2}dy$$

**Question 2** [5 points]: Solve the following linear equation

$$(1 + t) \frac{dx}{dt} = x + 1 + t.$$