

## Engineering Mathematics I---Quiz-2

Oct. 19, 2005

1) **Solve**  $t^2 \frac{dy}{dt} + y^2 = ty$

2) **Solve**  $2x \frac{dy}{dx} - y^2 + 2y + 8 = 0$

[Hint: One solution is of the form  $b$  ( $b$  is a constant)]