Name

ΜĦ

Find the General Solution of the following ODEs

**1.** 
$$ty' - 4y = 3t^{-2}$$

y(t) =

in 
$$y' + P y = 5$$
  
 $nut - sep$ ,  
 $p(t) = -\frac{2}{2}t \le -\frac{2}{4}dt - \frac{2}{4}dt$   
 $v(t) = e = e$   
 $v(t) = e \ln(t^{2}) = t^{-2}$   
 $y = -t^{2}e^{-t} + Ct^{2}$ 

 $(1 + 2ty^2) dt + (2y + 2t^2y + 3y^2) dy = 0 \text{ aka } y' = -(1 + 2ty^2)/(2y + 2t^2y + 3y^2)$ 

| 2. | y' | Ξ | 2t+y  |
|----|----|---|-------|
|    |    |   | t+3 V |

| (+3 y |  |  |  |  |  |  |
|-------|--|--|--|--|--|--|
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