

My mega amazing problem!

Author Name

Find the solution of the ODE

$$y' = 3$$

that fulfills $y(0) = 1$.

Solution: Generic solution is:

$$y = 3x + C.$$

Solution to the initial value problem is:

$$y = 3x + 1.$$

You can also solve the problem with MatLab:

```
tspan = [0 5];  
y0 = 1;  
[t,y] = ode45(@(t,y) 3, tspan, y0);  
plot(t, y);
```

This is shown on the next figure:

