

**海洋大學河海工程學系2007 工程數學 (一) 2B 班 方向作圖法**

1. The four ODEs are defined as follows:

$$y' = y^{3/5} \quad (1)$$

$$y' = (y^2 - 4)(y - 4) \quad (2)$$

$$y' = \frac{2xy}{1 + y^2} \quad (3)$$

$$y' = 1 + x + y \quad (4)$$

$$y' = y(1 - y) \quad (5)$$

$$y' = xy \quad (6)$$

The solutions are plotted in the following figures. Write down the corresponding characters (a), (b), (c) and (d) in the table.(100%)

Table 1: Solutions mapping to each ODE

ODE	Eq.(1)	Eq.(2)	Eq.(3)	Eq.(4)	Eq.(5)	Eq.(6)
Fig.	a	b	c	d	h	f