

There are four slope fields on the next two pages. Determine which slope field goes with each of the following differential equations. For each equation sketch the two solutions corresponding to the two conditions (a) and (b)

$$\frac{dy}{dx} = \cos(1.5y) \quad (1)$$

(a) $y(0) = 0$

(b) $y(-3) = \pi/2$

$$\frac{dy}{dx} = x + y \quad (2)$$

(a) $y(0) = 0$

(b) $y(-2) = 2.1$

$$\frac{dy}{dx} = \frac{x + y}{x - y} \quad (3)$$

(a) $y(-3) = 0$

(b) $y(-2) = 3$

$$\frac{dy}{dx} = -2 + \frac{y^2}{2} \quad (4)$$

(a) $y(-1) = 0$

(b) $y(-3) = 3$



