

# Directional Field.

1. Directional Field: a graph made up of tiny lines, each of which approx. the slope of the func. at the points

1). rate func.:  $\frac{dy}{dt} = f(t, y)$

①. the short line segment in D.F. is drawn whose slope is the value of  $f$  at that point.

e.g.  $\frac{dy}{dt} = 3 - 2t - 0.5y \rightarrow f(t, y)$ .

配对题:  
① Eq. sol<sup>n</sup>  
②  $y' > 0$ ;  $y' < 0$ .  
③ Horizontal tan.

$(t, y)$	$\frac{dy}{dt}$
$(0, 0)$	3
$(\frac{3}{2}, 0)$	0

equilibrium  
sol<sup>n</sup>: 表现在  
D.F. 为 平衡  
线

(0,