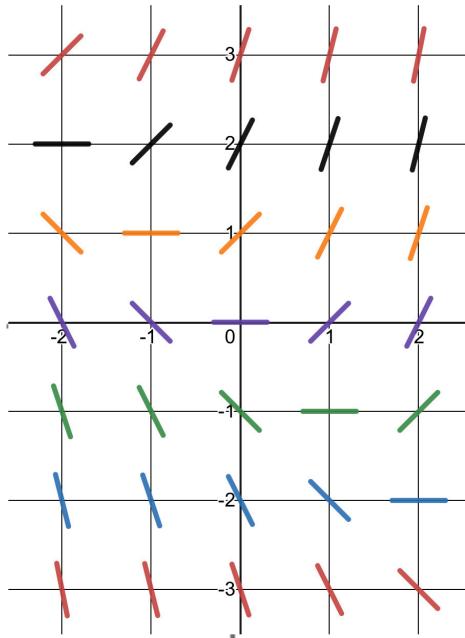


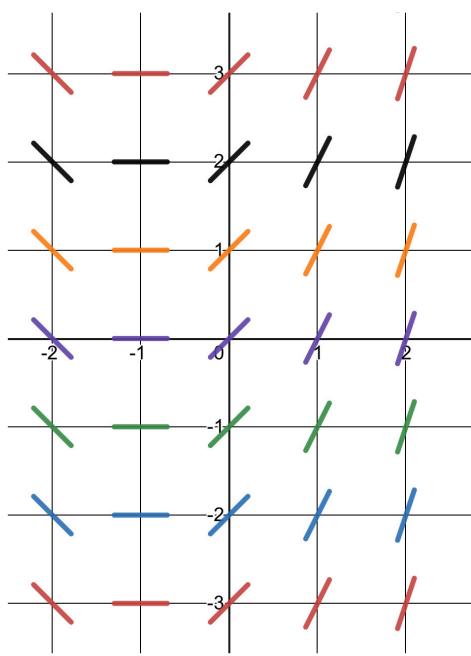
Homework 7.4

For the indicated points on each grid, draw the slope field for the given differential equation.

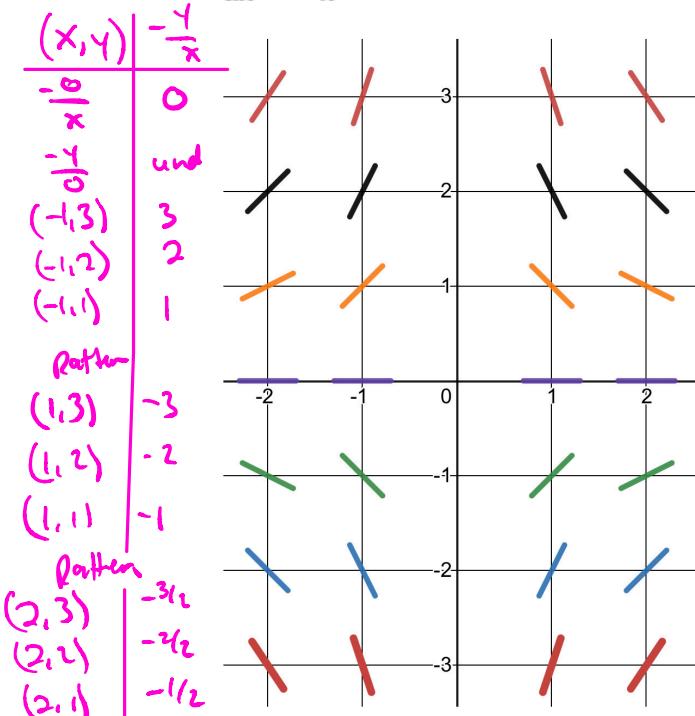
1. $\frac{dy}{dx} = x + y$



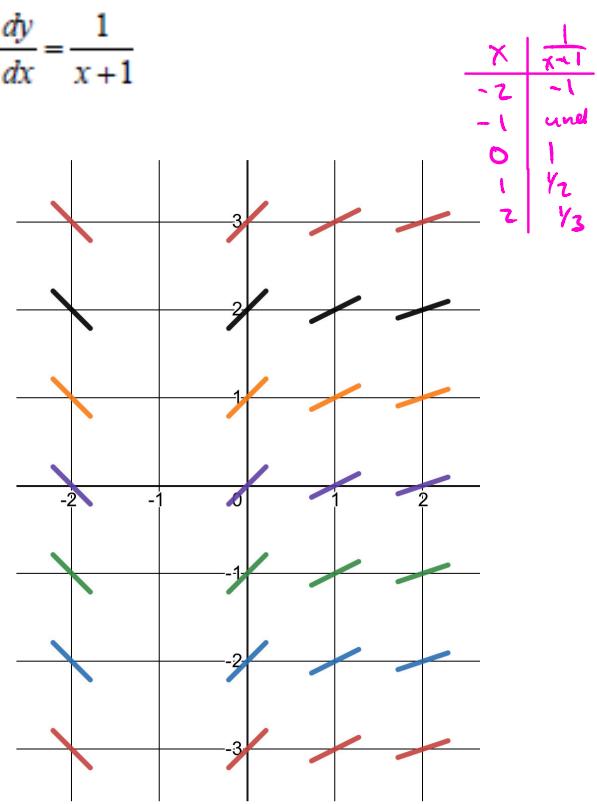
3. $\frac{dy}{dx} = x + 1$



2. $\frac{dy}{dx} = -\frac{y}{x}$



4. $\frac{dy}{dx} = \frac{1}{x+1}$

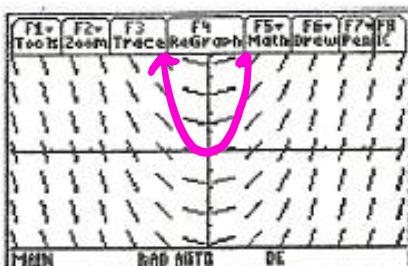


#4 Match a slope field to a solution to a differential equation.

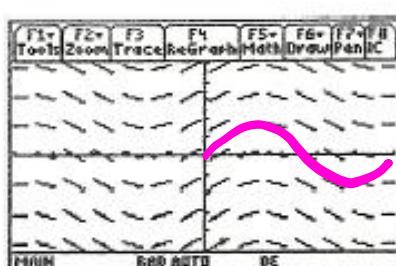
When given a slope field and a solution to a differential equation, then the slope field should look like the solution, or y .

Match the slope fields below to the solutions on the next page.

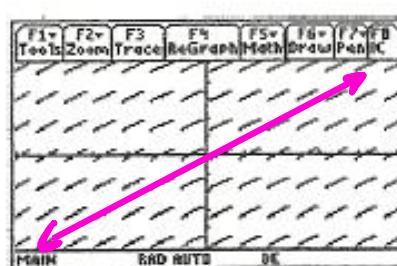
A.



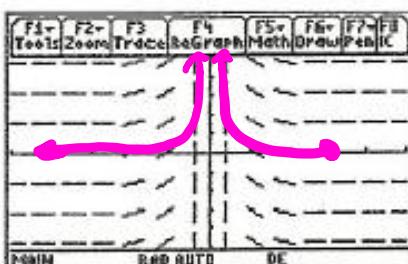
B.



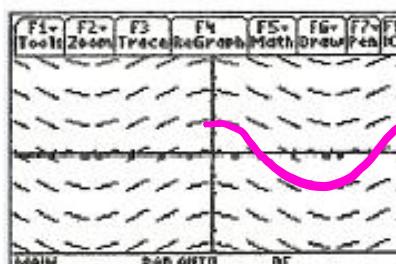
C.



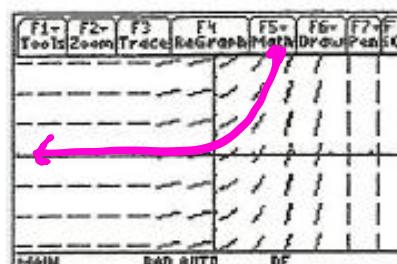
D.



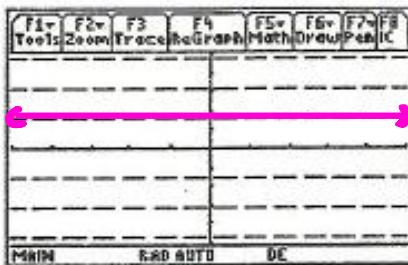
E.



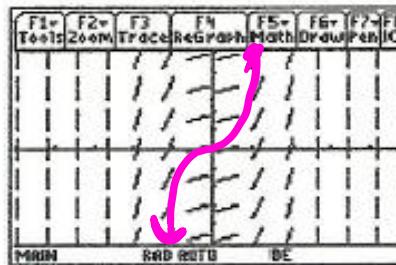
F.



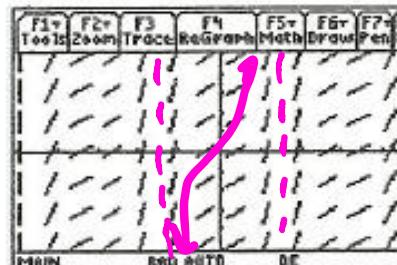
G.



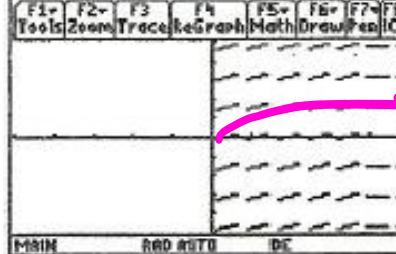
H.

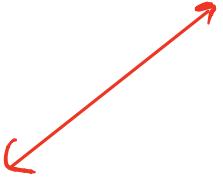
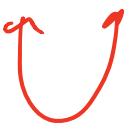
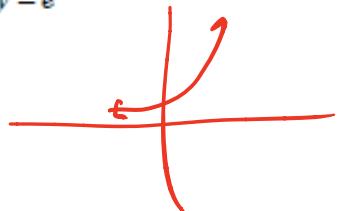
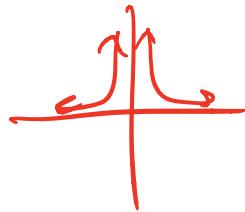
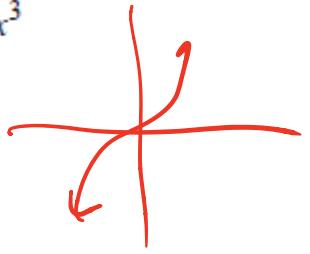
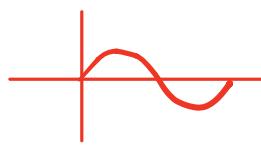
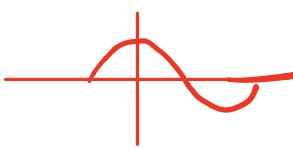
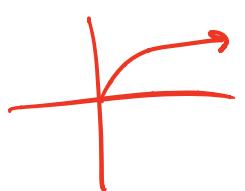
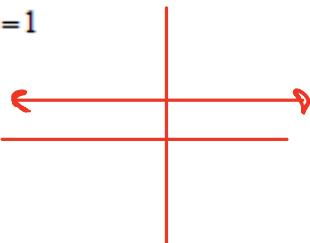


I.



J.



C	1. $y=x$ 	A	2. $y=x^2$ 
F	3. $y=e^x$ 	D	4. $y=\frac{1}{x^2}$ 
H	5. $y=x^3$ 	B	6. $y=\sin x$  E or B
E	7. $y=\cos x$  E or B	J	8. $y=\sqrt{x}$ 
G	9. $y=1$ 	I	10. $y=\tan x$ 