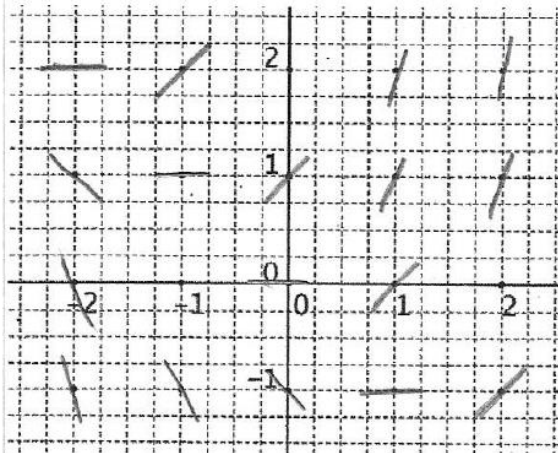


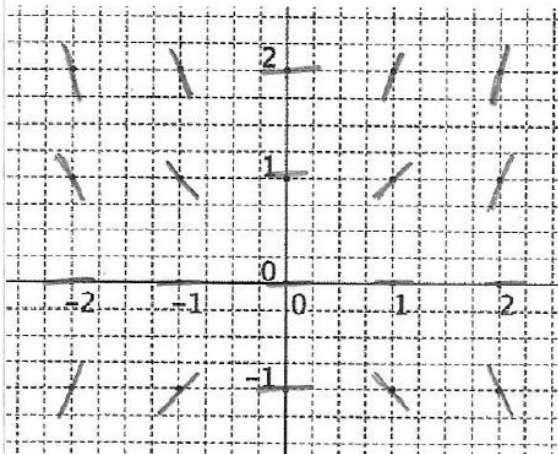
1. $\frac{dy}{dx} = x + y$

Point	Slope	Point	Slope
(-2, -1)		(0, 1)	
(-2, 0)		(0, 2)	
(-2, 1)		(1, -1)	
(-2, 2)		(1, 0)	
(-1, -1)		(1, 1)	
(-1, 0)		(1, 2)	
(-1, 1)		(2, -1)	
(-1, 2)		(2, 0)	
(0, -1)		(2, 1)	
(0, 0)		(2, 2)	



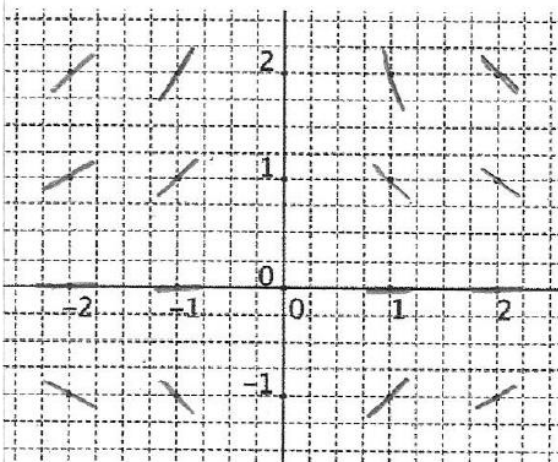
2. $\frac{dy}{dx} = xy$

Point	Slope	Point	Slope
(-2, -1)		(0, 1)	
(-2, 0)		(0, 2)	
(-2, 1)		(1, -1)	
(-2, 2)		(1, 0)	
(-1, -1)		(1, 1)	
(-1, 0)		(1, 2)	
(-1, 1)		(2, -1)	
(-1, 2)		(2, 0)	
(0, -1)		(2, 1)	
(0, 0)		(2, 2)	


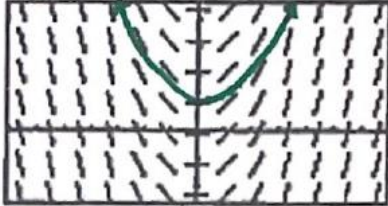
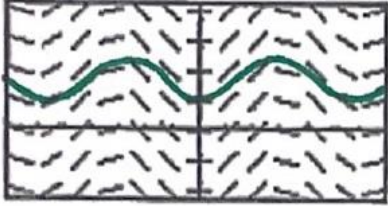
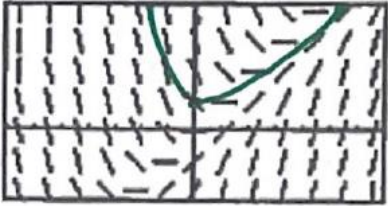


3. $\frac{dy}{dx} = -y/x$

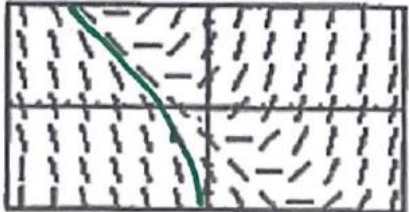
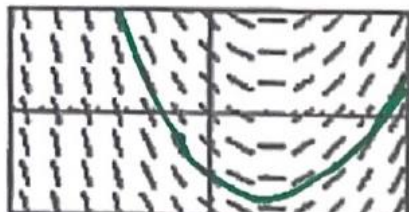
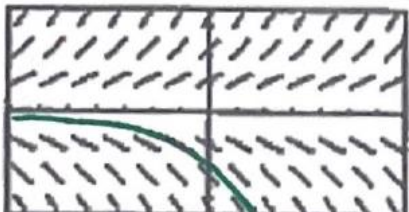

Point	Slope	Point	Slope
(-2, -1)		(0, 1)	
(-2, 0)		(0, 2)	
(-2, 1)		(1, -1)	
(-2, 2)		(1, 0)	
(-1, -1)		(1, 1)	
(-1, 0)		(1, 2)	
(-1, 1)		(2, -1)	
(-1, 2)		(2, 0)	
(0, -1)		(2, 1)	
(0, 0)		(2, 2)	



Match the differential equations with the appropriate slope field. For each graph sketch the particular solution that passes through the point $(0,1)$.

4. $\frac{dy}{dx} = \sin x$ <u>C</u>	(A) 	(B) 
5. $\frac{dy}{dx} = x - y$ <u>D</u>	(C) 	(D) 
6. $\frac{dy}{dx} = 2 - y$ <u>A</u>		
7. $\frac{dy}{dx} = x$ <u>B</u>		

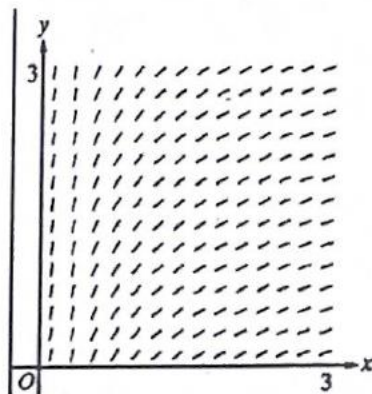
Match the differential equations with the appropriate slope field. For each graph sketch the particular solution that passes through the point $(-1,-1)$.

8. $\frac{dy}{dx} = 0.5x - 1$ <u>B</u>	(A) 	(B) 
9. $\frac{dy}{dx} = 0.5y$ <u>C</u>	(C) 	(D) 
10. $\frac{dy}{dx} = -\frac{x}{y}$ <u>D</u>		
11. $\frac{dy}{dx} = x + y$ <u>A</u>		

12. At the right is a slope field from a certain differential equation. Which of the following could be a specific solution to that differential equation?

(A) $y = x^2$ (B) $y = e^x$ (C) $y = e^{-x}$

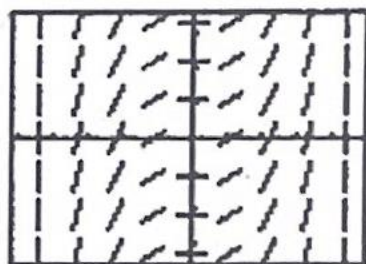
(D) $y = \cos x$ (E) $y = \ln x$



13. At the right is a slope field from a certain differential equation. Which of the following could be a specific solution to that differential equation?

(A) $y = \sin x$ (B) $y = \cos x$ (C) $y = x^2$

(D) $y = \frac{1}{6}x^3$ (E) $y = \ln x$

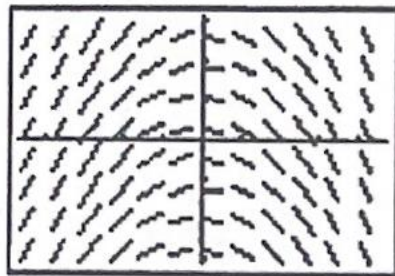


14. At the right is a slope field from a certain differential equation. Which of the following could be a specific solution to that differential equation?

(A) $y = \sin x$ (B) $y = \cos x$

(C) $y = -x^2$

(D) $y = \tan x$ (E) $y = e^{-x}$



15. At the right is a slope field from a certain differential equation. Which of the following could be a specific solution to that differential equation?

(A) $y = x^2$

(B) $y = e^x$

(C) $y = e^{-x}$

(D) $x = y^2$

(E) $y = \ln x$

