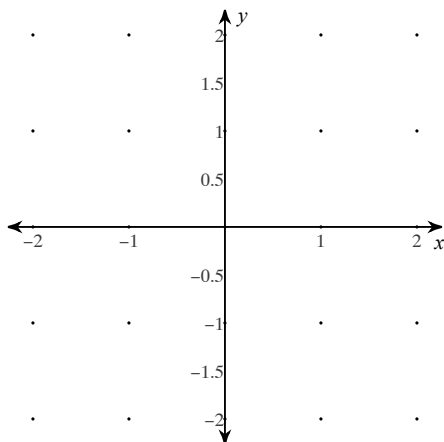


Slope Field Practice

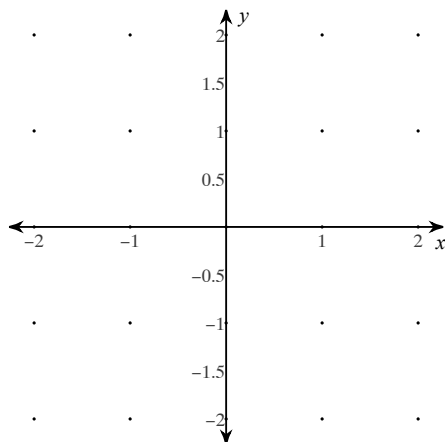
Date _____ Period _____

Sketch the slope field for each differential equation.

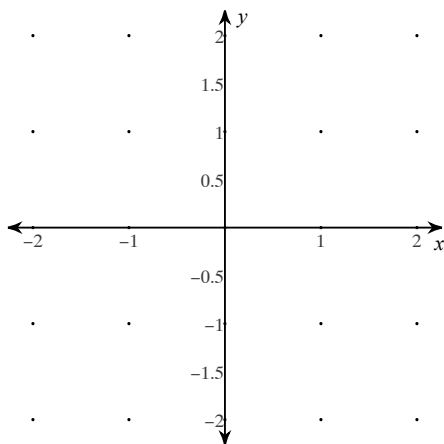
1) $\frac{dy}{dx} = y - x$



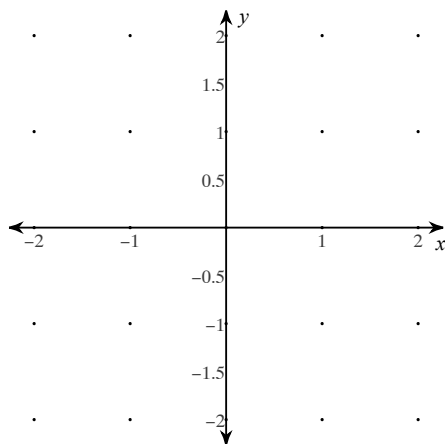
2) $\frac{dy}{dx} = \frac{y}{x}$



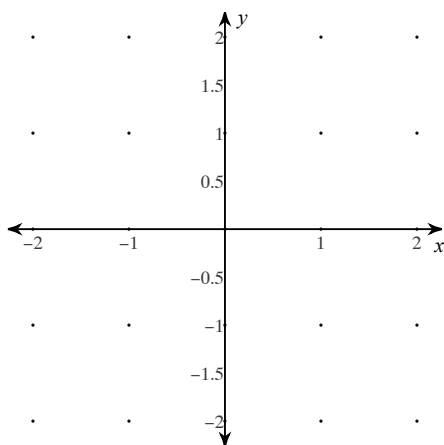
3) $\frac{dy}{dx} = \frac{x}{y}$



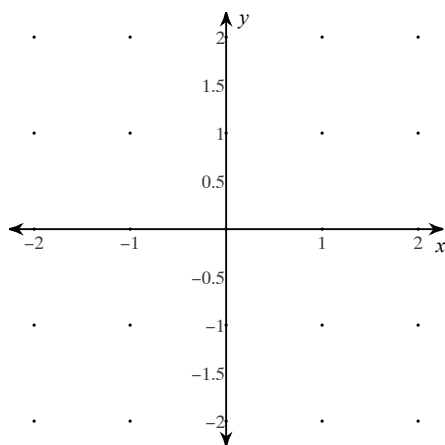
4) $\frac{dy}{dx} = x - y$



$$5) \frac{dy}{dx} = -\frac{y}{x}$$

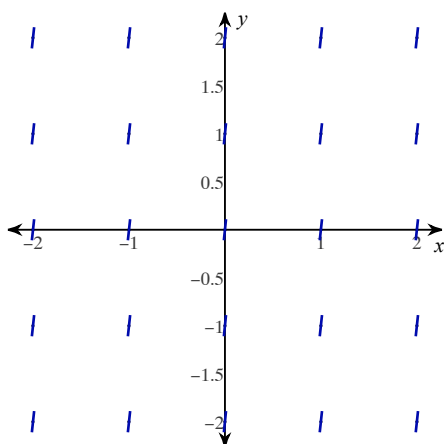


$$6) \frac{dy}{dx} = -xy$$



For each problem, find a differential equation that could be represented with the given slope field.

7)



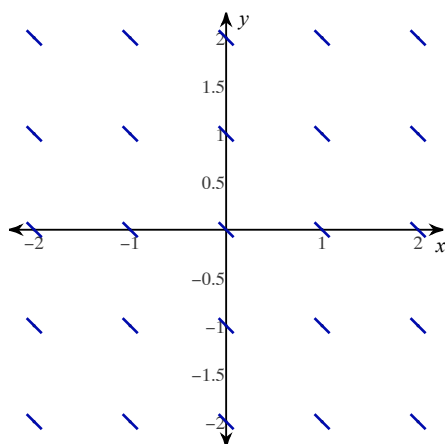
A) $\frac{dy}{dx} = \frac{1}{y}$

B) $\frac{dy}{dx} = y$

C) $\frac{dy}{dx} = 9$

D) $\frac{dy}{dx} = y^2$

8)



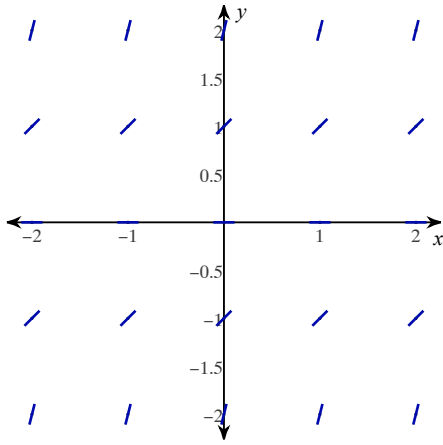
A) $\frac{dy}{dx} = \frac{1}{9}$

B) $\frac{dy}{dx} = y^2$

C) $\frac{dy}{dx} = -1$

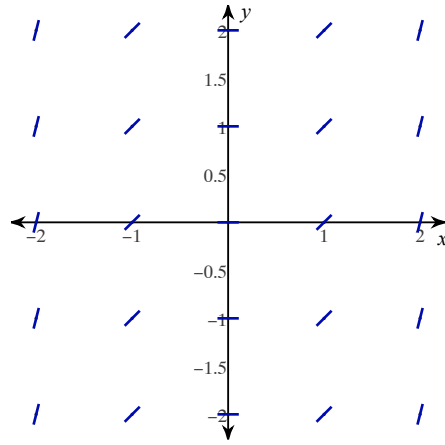
D) $\frac{dy}{dx} = y$

9)



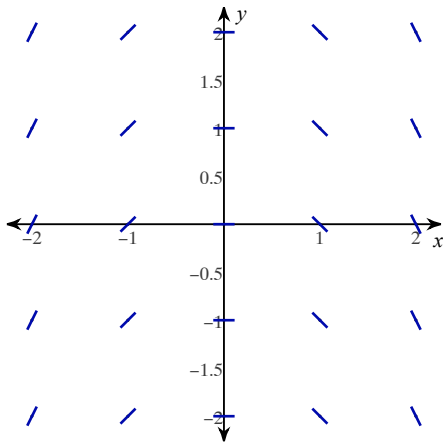
- A) $\frac{dy}{dx} = 9$ B) $\frac{dy}{dx} = y^2$
 C) $\frac{dy}{dx} = -x$ D) $\frac{dy}{dx} = -1$

10)



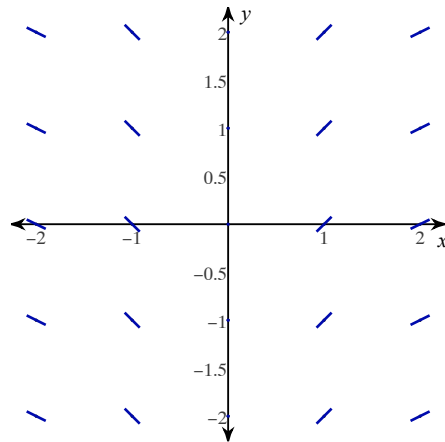
- A) $\frac{dy}{dx} = \frac{1}{y}$ B) $\frac{dy}{dx} = y$
 C) $\frac{dy}{dx} = \frac{1}{9}$ D) $\frac{dy}{dx} = x^2$

11)



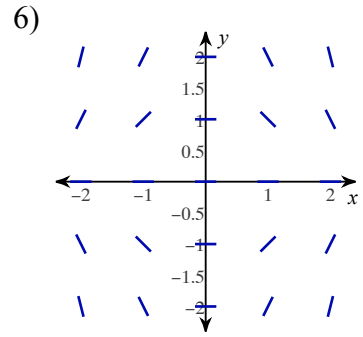
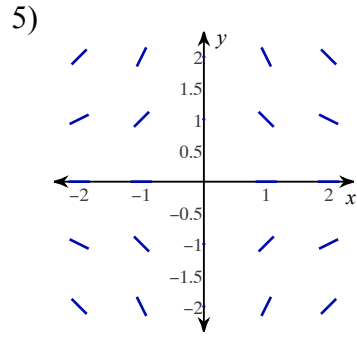
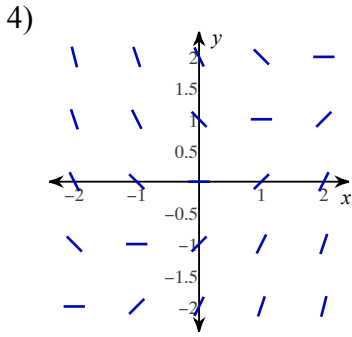
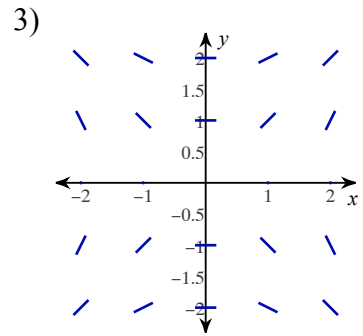
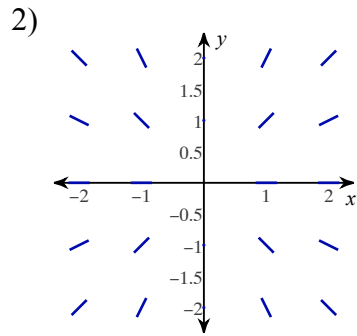
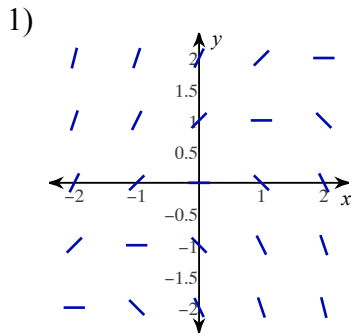
- A) $\frac{dy}{dx} = -y$ B) $\frac{dy}{dx} = -x$
 C) $\frac{dy}{dx} = -1$ D) $\frac{dy}{dx} = 1$

12)



- A) $\frac{dy}{dx} = -\frac{1}{y}$ B) $\frac{dy}{dx} = \frac{1}{x}$
 C) $\frac{dy}{dx} = y^2$ D) $\frac{dy}{dx} = x$

Answers to Slope Field Practice (ID: 1)



7) C
11) B

8) C
12) B

9) B

10) D