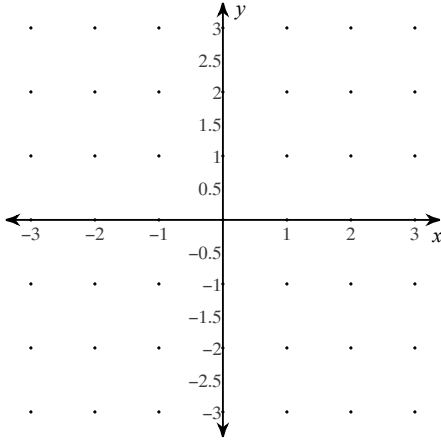


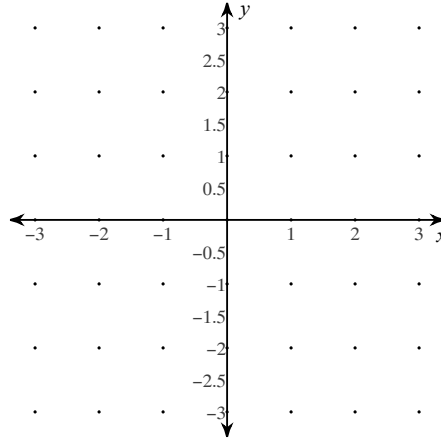
8.2: Skills Practice: Slope Fields of Differential Equations

Sketch the slope field for each differential equation.

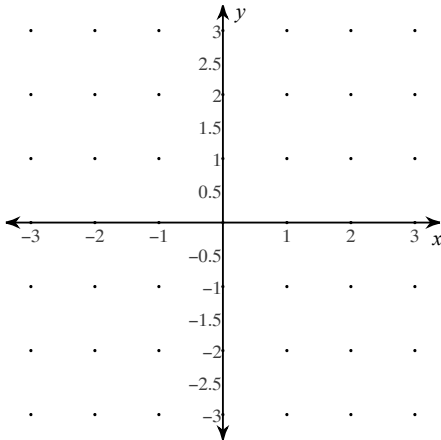
1) $\frac{dy}{dx} = \frac{y}{x}$



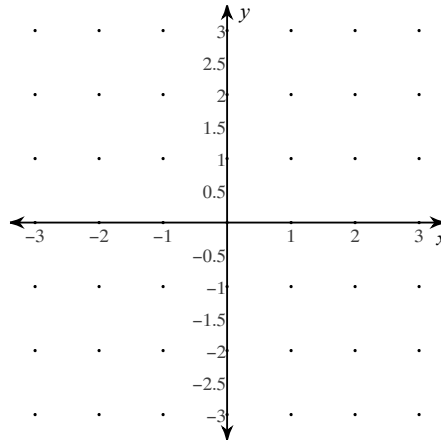
2) $\frac{dy}{dx} = -\frac{1}{x}$



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

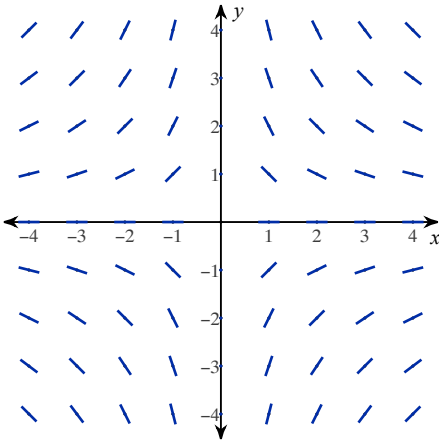


4) $\frac{dy}{dx} = -\frac{y}{x}$



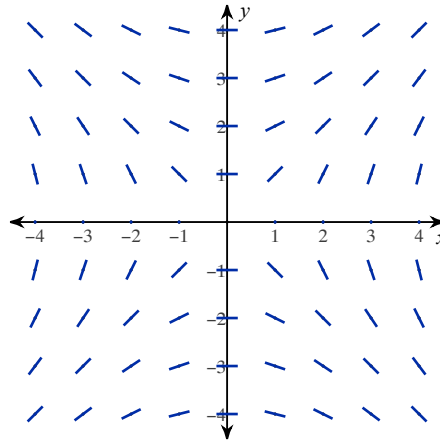
For each problem, find a differential equation that could be represented with the given slope field.

5)



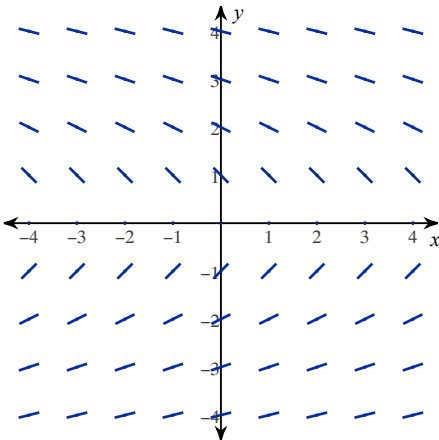
- A) $\frac{dy}{dx} = x - y$ B) $\frac{dy}{dx} = -1$
 C) $\frac{dy}{dx} = 1$ D) $\frac{dy}{dx} = -\frac{y}{x}$

6)



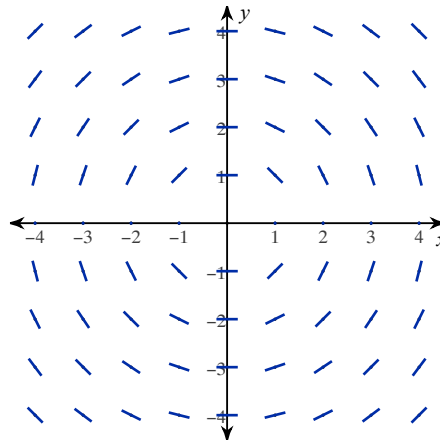
- A) $\frac{dy}{dx} = -x$ B) $\frac{dy}{dx} = xy$
 C) $\frac{dy}{dx} = \frac{y}{x}$ D) $\frac{dy}{dx} = \frac{x}{y}$

7)



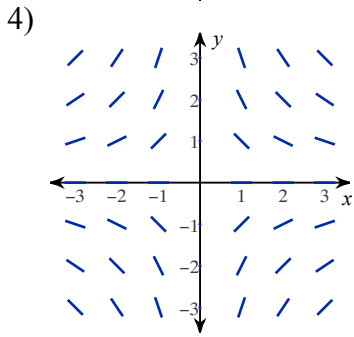
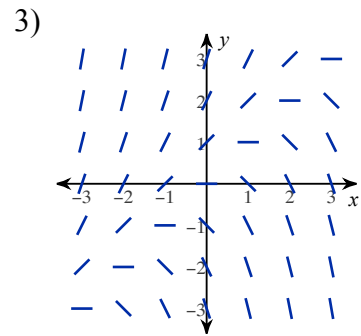
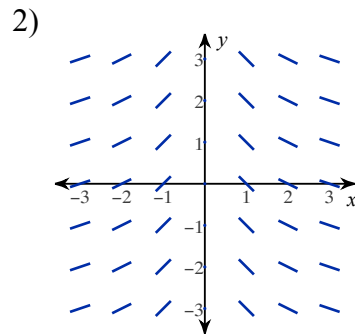
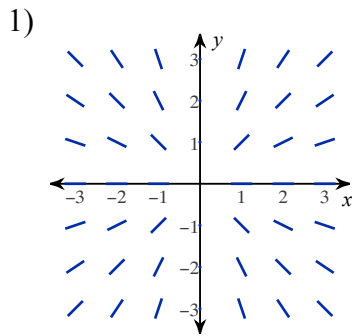
- A) $\frac{dy}{dx} = \frac{x}{y}$ B) $\frac{dy}{dx} = x$
 C) $\frac{dy}{dx} = -\frac{1}{y}$ D) $\frac{dy}{dx} = y$

8)



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

Answers to 8.2: Skills Practice: Slope Fields of Differential Equations



5) D

6) D

7) C

8) C