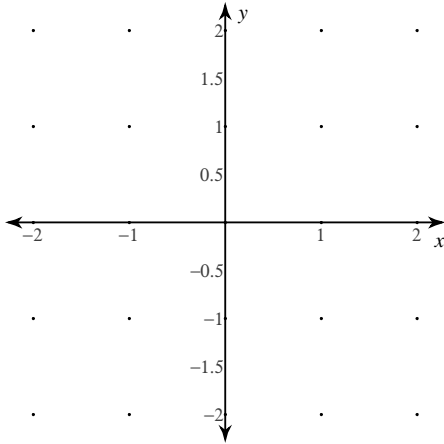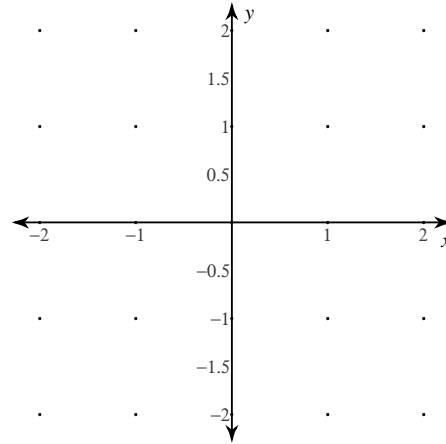Name_____

Slope Fields

Date_____ Period_____

Sketch the slope field for each differential equation.
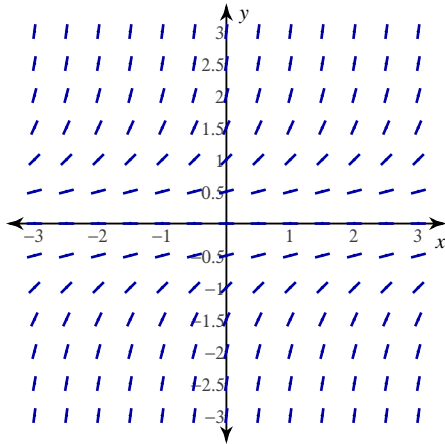
1) $\dfrac{dy}{dx} = x$

2) $\dfrac{dy}{dx} = -\dfrac{x}{y}$

For each problem, find a differential equation that could be represented with the given slope field.
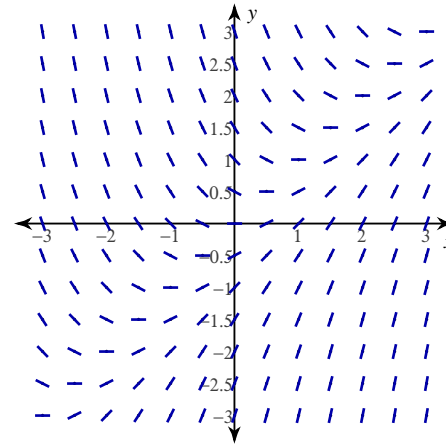
3)

A) $\dfrac{dy}{dx} = -\dfrac{1}{x}$ B) $\dfrac{dy}{dx} = -\dfrac{1}{y}$

C) $\dfrac{dy}{dx} = 1$ D) $\dfrac{dy}{dx} = y^2$

4)

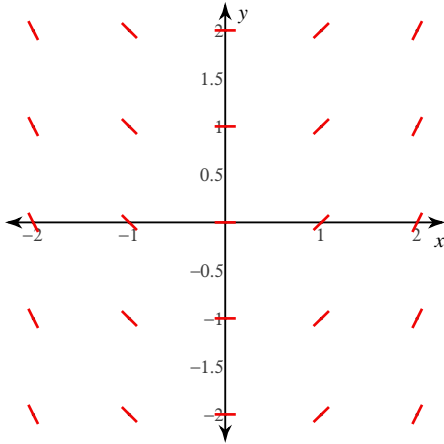
A) $\dfrac{dy}{dx} = x + y$ B) $\dfrac{dy}{dx} = x - y$

C) $\dfrac{dy}{dx} = xy$ D) $\dfrac{dy}{dx} = -xy$

Name_____

Slope Fields

Date_____ Period_____

Sketch the slope field for each differential equation.

1) $\dfrac{dy}{dx} = x$

2) $\dfrac{dy}{dx} = -\dfrac{x}{y}$

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

3)

A) $\dfrac{dy}{dx} = -\dfrac{1}{x}$ B) $\dfrac{dy}{dx} = -\dfrac{1}{y}$

C) $\dfrac{dy}{dx} = 1$ *D) $\dfrac{dy}{dx} = y^2$

4)

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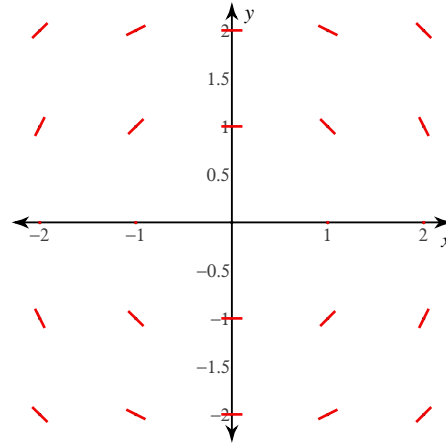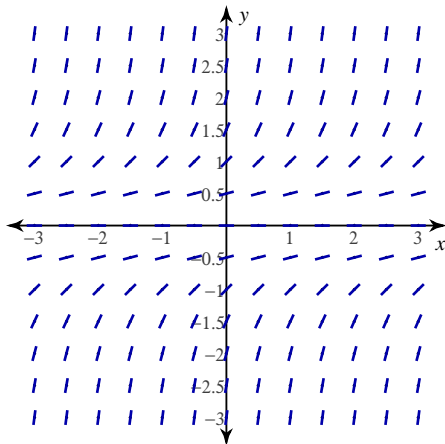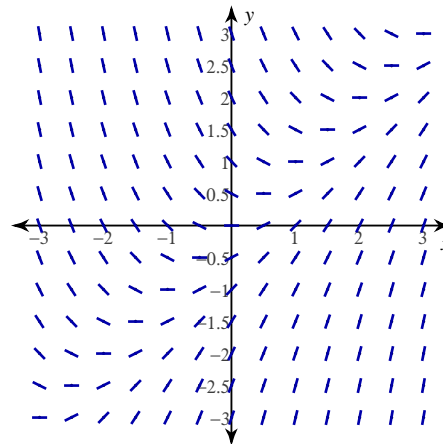
C) $\dfrac{dy}{dx} = xy$ D) $\dfrac{dy}{dx} = -xy$