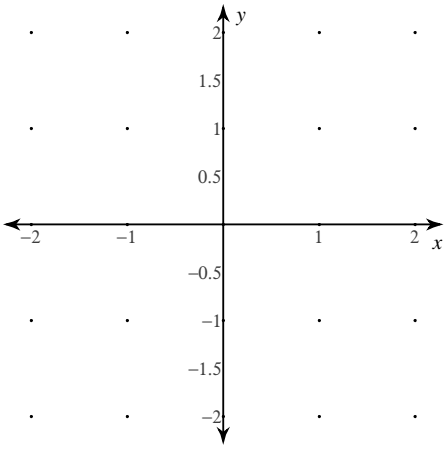
Kuta Software - Infinite Calculus Name_____

Slope Fields

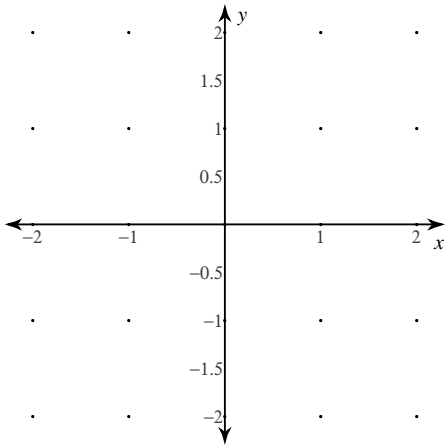
Date_____ Period____

Sketch the slope field for each differential equation.

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

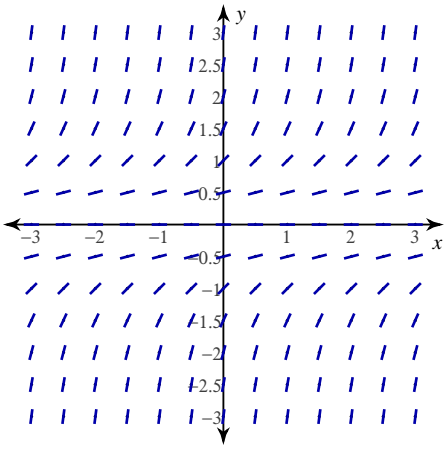


2) $\frac{dy}{dx} = -\frac{x}{y}$



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

3)



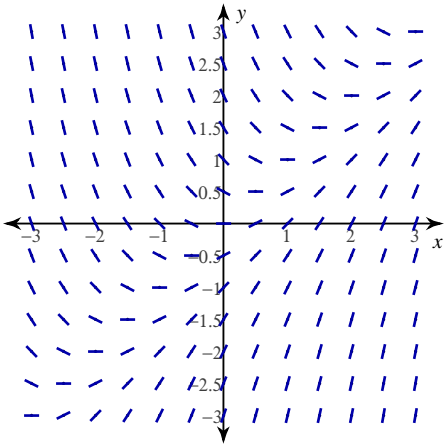
A) $\frac{dy}{dx} = -\frac{1}{x}$

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

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

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

4)



A) $\frac{dy}{dx} = x + y$

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

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

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

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Sketch the slope field for each differential equation.

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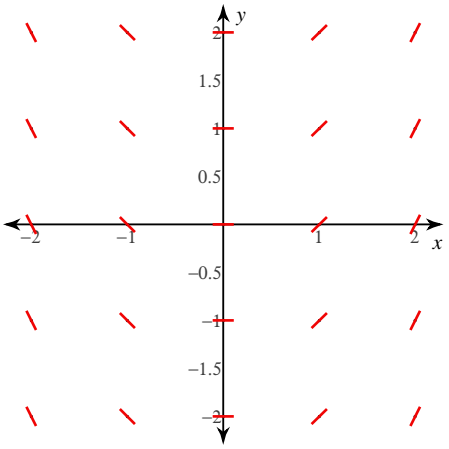

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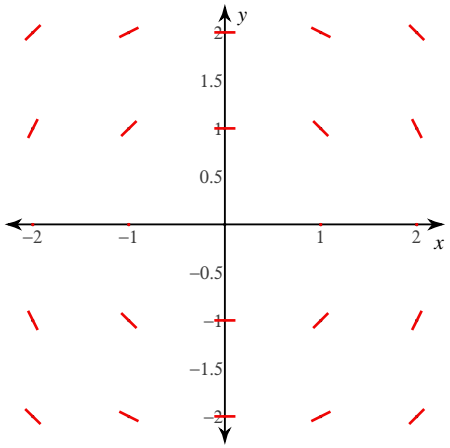

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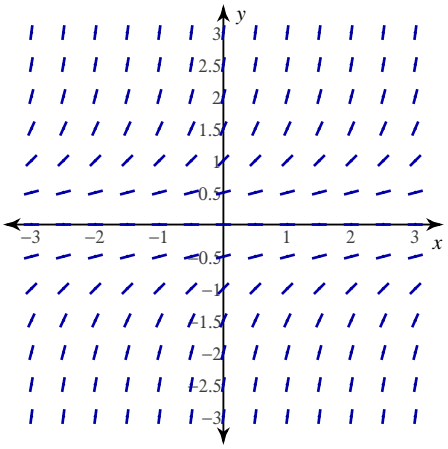

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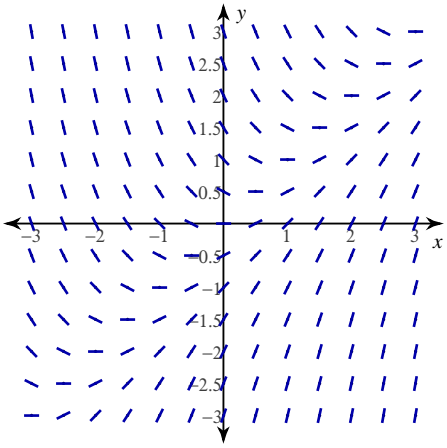

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