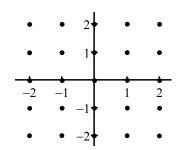
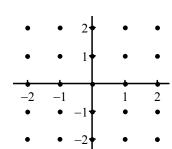
7.3 Sketching Slope Fields

Name:

Draw a slope field for each of the following differential equations. Use each of the coordinate points shown

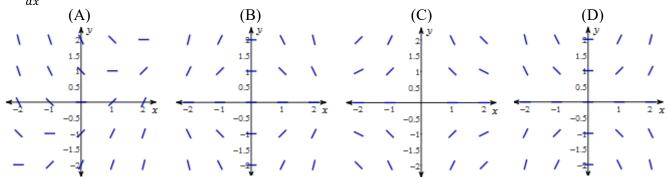
$$1. \ \frac{dy}{dx} = x - 2y$$

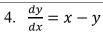


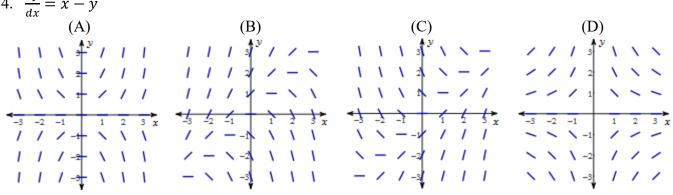


Match the differential equation with its slope field.

$$3. \ \frac{dy}{dx} = xy$$

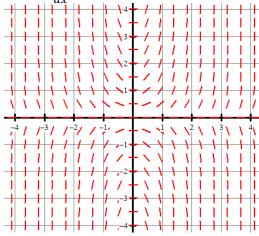






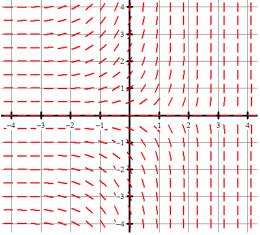
5. The figure below shows the slope field for the differential equation $\frac{dy}{dx} = 2xy$

Let f be the function that satisfies the given differential equation. Write an equation for the tangent line to the curve y = f(x) through the point (-2,3).



6. The figure below shows the slope field for the differential equation $\frac{dy}{dx} = e^x y$

Let f be the function that satisfies the given differential equation. Write an equation for the tangent line to the curve y = f(x) through the point (0, -3).



Answers to 7.3 CA #1

