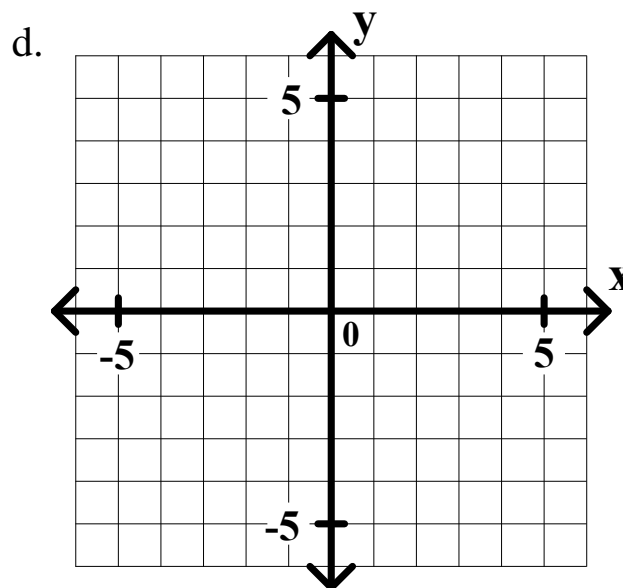
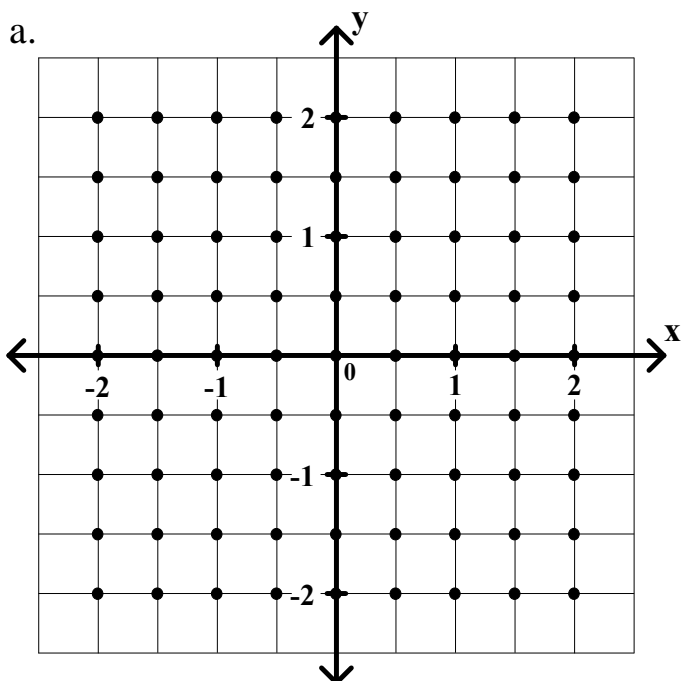


In the following problem, you are given a differential equation and a point. Do each of the following. Show your work in the space provided.

- Sketch a slope field on the axes provided at the indicated points.
- Find the general solution of the differential equation.
- Find the specific solution that would contain the given point.
- Graph the specific solution.

1. $\frac{dy}{dx} = xy^2$; $(-1, 2)$



b. _____

c. _____

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Find the general solution of each of the following differential equations. Then find the specific solution that would contain the given point.

2. $dy/dx = x^2y$; (3, e)

3. $ydy + xdx = 0$; (-3, -4)

4. $dy = x\sqrt{y} dx$; (4, 1)

5. $dy/dx = 0.06y$; (0, 100)