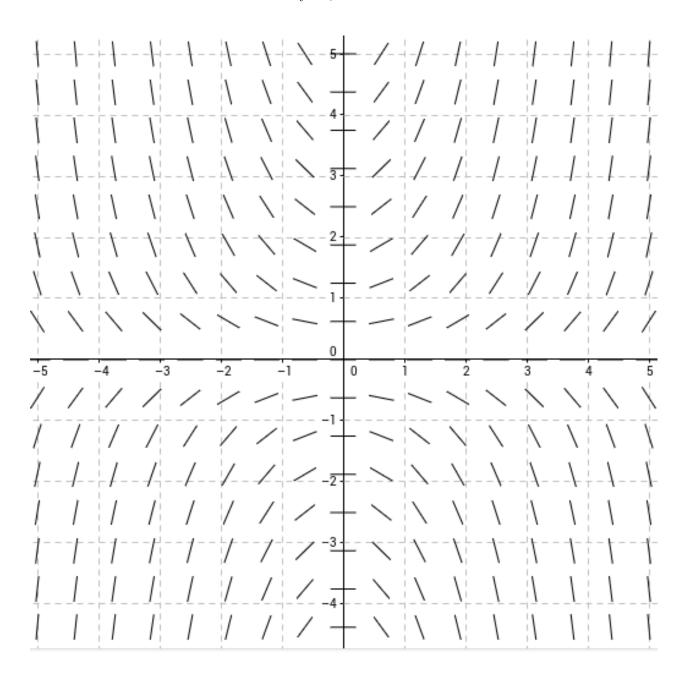
## Module 5 Lesson 2 Assignment 1

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$$\frac{dy}{dx} = \frac{xy}{2}$$

$$\frac{1}{2}$$

$$\frac{y}{x} = \frac{x}{x}$$

$$\frac{y}{x} = \frac{x}{x}$$

$$\frac{y}{x} = \frac{x}{x}$$

$$\frac{1}{x} = \frac{1}{x}$$

$$y = \frac{1}{4}x^{2} - \frac{1}{4}$$

$$y = e^{\frac{x^{2}+1}{4}}$$

$$y(1.2) = e^{\frac{(1.2)^{2}+1}{4}}$$

$$\gamma(1.2) = e^{\frac{(1.2)^{2}+1}{4}}$$

$$\gamma(1.2) = e^{\frac{44}{4}}$$

$$\gamma(1.2) = e^{\frac{44}{4}} \approx 1.116$$

$$\frac{\partial y}{\partial x} = \frac{xy}{2}$$

$$\frac{\partial y}{\partial x} = \frac{1}{2}$$
  $y+1 = \frac{1}{2}(x-1) \Rightarrow y = \frac{1}{2}x + \frac{1}{2}$ 

$$f(1.2) \approx \frac{1}{2}(1.2) + \frac{1}{2} \approx 1.1$$