

2. [8 points] Eight differential equations are listed below in **A-H**. The slope fields of four of these eight differential equations are shown in the figures below. For each figure, write the letter (A-H) of the corresponding differential equation in the space provided below the figure. You do not need to show your work for this problem.

**A.**  $y' = x^2 + y^2$

**B.**  $y' = e^{y^2}$

**C.**  $y' = x^2 - y^2$

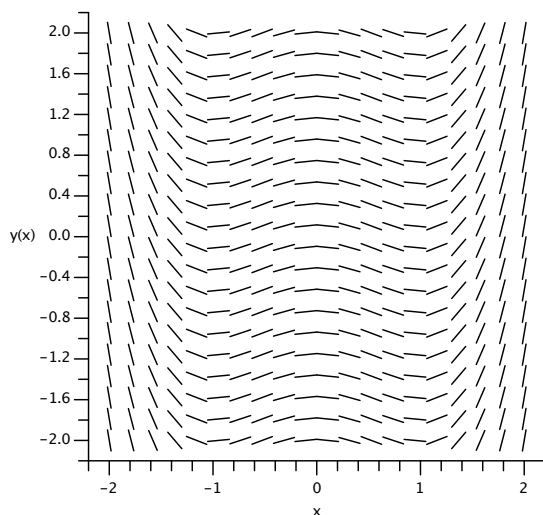
**D.**  $y' = \cos(y)$

**E.**  $y' = x^2 - 1$

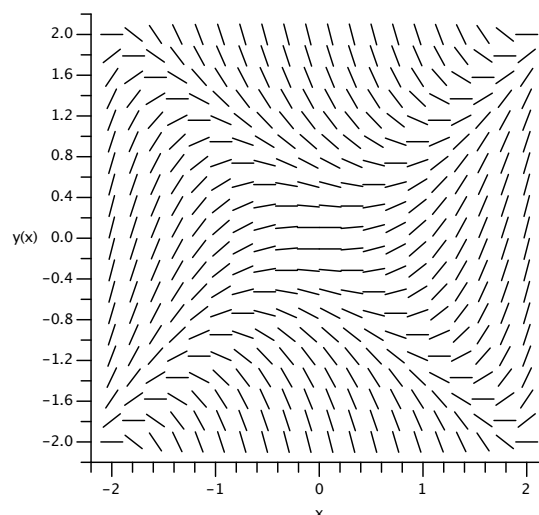
**F.**  $y' = e^y$

**G.**  $y' = x^3 - x$

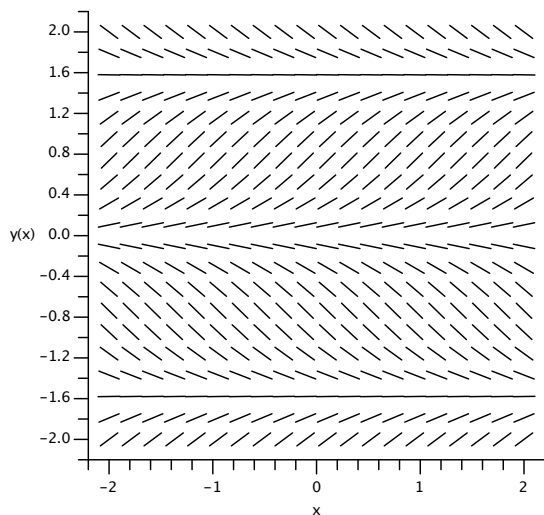
**H.**  $y' = \sin(2y)$



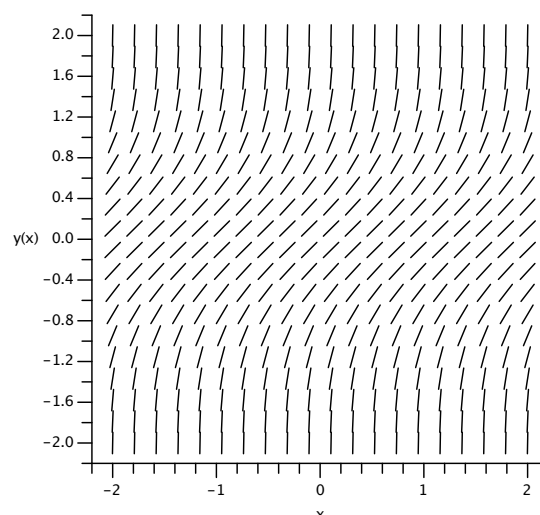
Differential Equation: \_\_\_\_\_



Differential Equation: \_\_\_\_\_



Differential Equation: \_\_\_\_\_



Differential Equation: \_\_\_\_\_