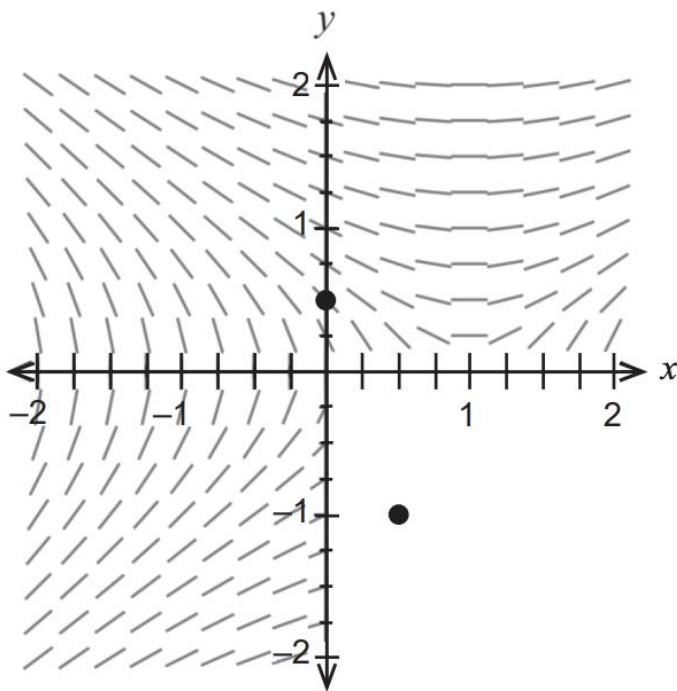


**Question 10****(8 marks)**

Part of the slope field given by  $\frac{dy}{dx} = \frac{x-1}{2y}$  is shown below.



- (a) Calculate and draw the slope field at the point  $(0.5, -1)$ .

**(3 marks)**

(b) Determine the equation of the solution curve that contains the point  $(0, 0.5)$ . (3 marks)

(c) Draw the solution curve that contains the point  $(0, 0.5)$ . (2 marks)