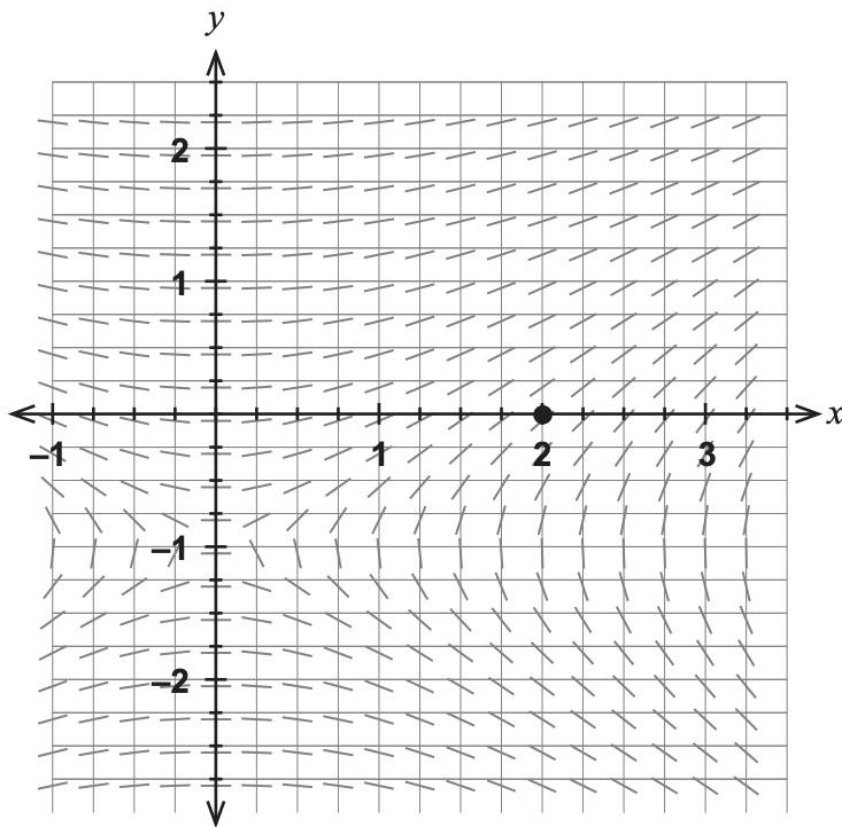


**Question 11****(6 marks)**

The slope field given by  $\frac{dy}{dx} = \frac{x}{2y+2}$  is shown in the diagram below.



- (a) Calculate the value of the slope field at the point (2,0).

(1 mark)

(b) On the diagram above, draw the solution curve that contains the point  $(2,0)$ . (2 marks)

- (c) Determine the equation for the solution curve that contains the point  $(2,0)$ . (3 marks)