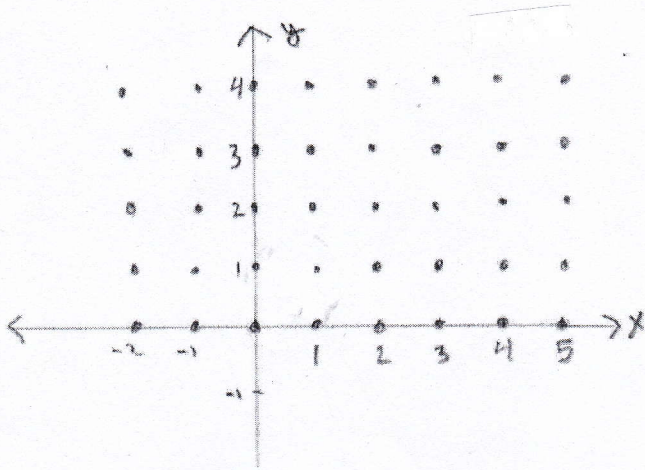


**Review: Slope Fields/Differential Equations/Exponential Growth and Decay**

1.a) Sketch the slope field for  $\frac{dy}{dx} = \frac{y}{6}(4 - y)$  at the indicated points below.



- b) Sketch a possible solution curve passing through the point (0,2)
- c) Find the equation of the tangent line at the point (0,2).
- d) Use the tangent line approximation to estimate  $f(0.1)$

2. Draw a slope field for  $\frac{dy}{dx} = \frac{x+2}{y}$  at the indicated points below.

