Slope field

Sketch the slope field of the following differential equations. Then use each slope field to sketch a solution curve that passes through the given point.

1. $y' = y - 2x$, $(1, 0)$.

2. $y' = xy - x^2$, $(0, 1)$.

3. $y' = y + xy$, $(0, 1)$.

4. $y' = x + y^2$, $(0, 0)$.

Use the following simulation to check your answers. Click on the link bellow to access:

https://teaching.smp.uq.edu.au/scims/Appl_analysis/Slope_fields.html