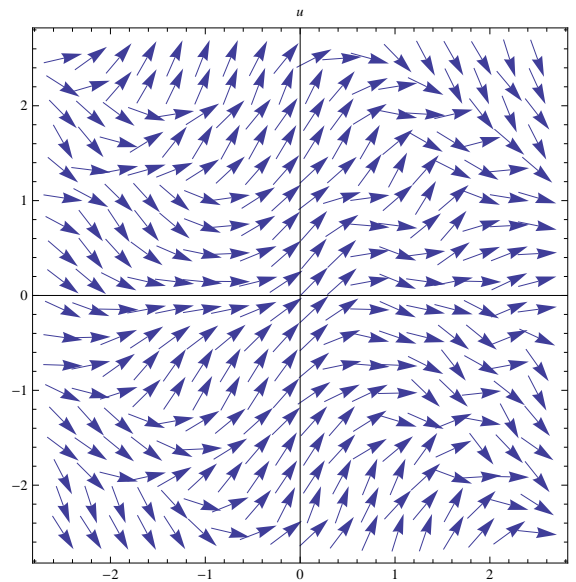




3. (5 points) Find the solution of the IVP  $x' - tx = t^3$ ,  $x(1) = 2$ .

4. (5 points) Suppose the slope field given below is for the equation  $u' = f(t, u)$ . Draw a possible solution for the IVP  $u' = f(t, u)$ ,  $u(0) = 1$ .



5. (5 points) Book Problems:

- Sect 2.2 #1, 3, 7, 11
- Sect 2.3 #1, 3, 5, 7, 11,