Graphics for Problems in Section 3.1.
**Bonus problems!**

For each of the four equations on the right find the corresponding direction field from those shown below. Also sketch several solution curves over the direction field.

\[ y' = -y + 1/y \]
\[ y' = \sin(t + y) \]
\[ y' = \sin(t) \cdot y \cdot (1 - y) \]
\[ y' = y^2 - t^2 \]

Below you see the graph of \( f(t, y) \) and to the right a corresponding plot of several contours (i.e., level curves). Use the contours to make a rough sketch of the direction field of the equation \( y' = f(t, y) \), and sketch the solution curve through each of the indicated points on the y-axis.