

Problem 29

In each of Problems 26 through 33, draw a direction field for the given differential equation. Based on the direction field, determine the behavior of y as $t \rightarrow \infty$. If this behavior depends on the initial value of y at $t = 0$, describe this dependency. Note that the right sides of these equations depend on t as well as y ; therefore, their solutions can exhibit more complicated behavior than those in the text.

$$y' = t + 2y$$