

Math 250.007, Handout 1 - direction fields (January 12th, 2022)

Label each of the following direction fields with the ordinary differential equation it describes.

1. $y' = t$
2. $y' = \frac{t}{y}$
3. $y' = -\frac{t}{y}$
4. $y' = 3y(1 - y)(y + 1)$
5. $y' = \frac{2ty}{t^2 - 1}$
6. $y' = -1$
7. $y' = \sin(2t)$
8. $y' = 4y(1 - y)$
9. $y' = -t + y + 1$
10. $y' = y$

