

Problem 20

Consider the following list of differential equations, some of which produced the direction fields shown in Figures 1.1.5 through 1.1.10. In each of Problems 15 through 20 identify the differential equation that corresponds to the given direction field.

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|---------------------|---------------------|-------------------|
| (a) $y' = 2y - 1$ | (b) $y' = 2 + y$ | (c) $y' = y - 2$ |
| (d) $y' = y(y + 3)$ | (e) $y' = y(y - 3)$ | (f) $y' = 1 + 2y$ |
| (g) $y' = -2 - y$ | (h) $y' = y(3 - y)$ | (i) $y' = 1 - 2y$ |
| (j) $y' = 2 - y$ | | |

The direction field of Figure 1.1.10.

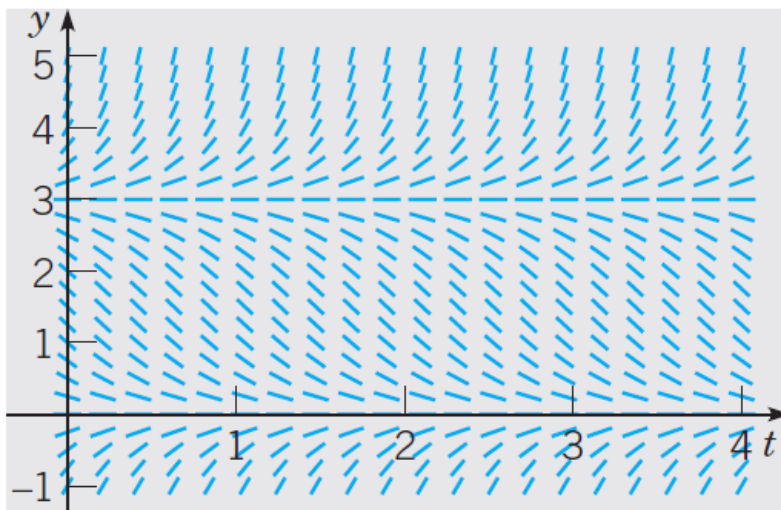


FIGURE 1.1.10 Problem 20.