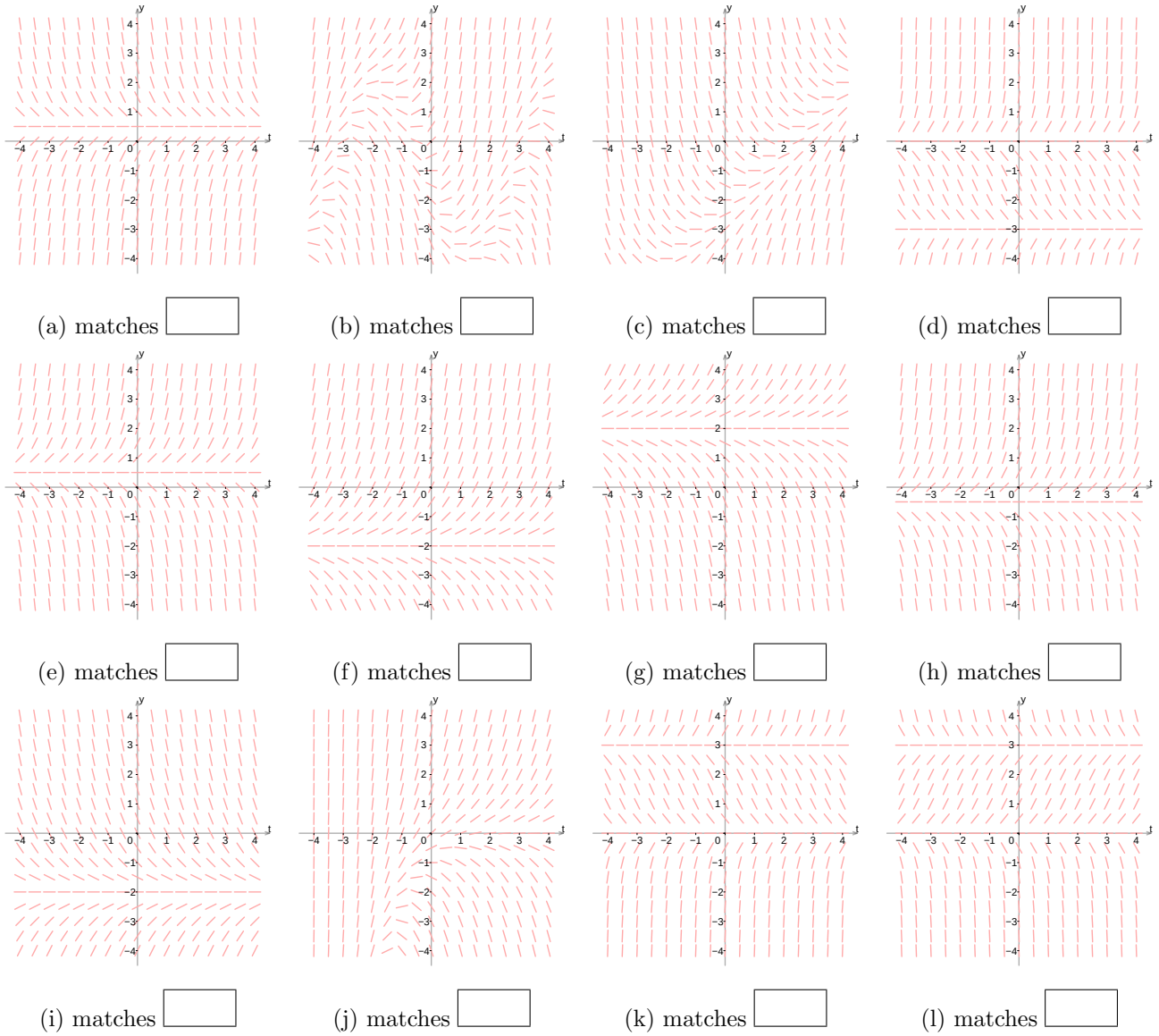
5. Match the given differential equations to direction fields in Figure 1

i) $y' = 2y - 1$
ii) $y' = 2 + y$
iii) $y' = y - 2$
iv) $y' = y(y + 3)$
v) $y' = y(y - 3)$
vi) $y' = 1 + 2y$
vii) $y' = -2 - y$
viii) $y' = y(3 - y)$
ix) $y' = 1 - 2y$
x) $y' = -2 + t - y$
xi) $y' = \mathrm{e}^{-t} + y$
xii) $y' = 3\sin(t) + 1 + y$



(a) matches ☐ (b) matches ☐ (c) matches ☐ (d) matches ☐

(e) matches ☐ (f) matches ☐ (g) matches ☐ (h) matches ☐

(i) matches ☐ (j) matches ☐ (k) matches ☐ (l) matches ☐

Figure 1