Extra problem 2

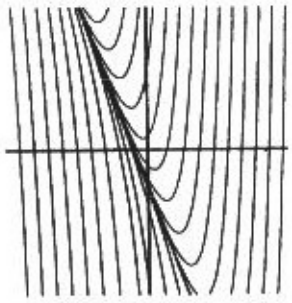
Determine which of the numbered graphs represents the family of solutions to each of the following equations

$a)\ y' = y^2 - 1$ $\quad b)\ y' = 2x + y$ $\quad c)\ y' = \sin(x) \cdot \sin(y)$

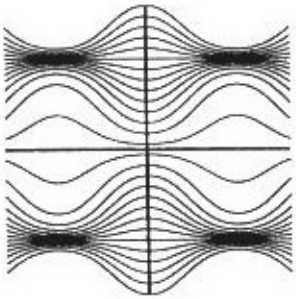
$d)\ y' = \dfrac{y}{x^2 - 1}$ $\quad e)\ y' = \dfrac{\sin(3x)}{1 - x^2}$

One of the given graphs does not match any equation.

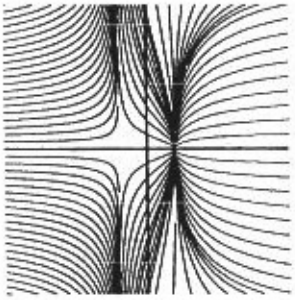
1)



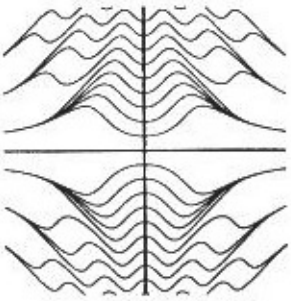
2)



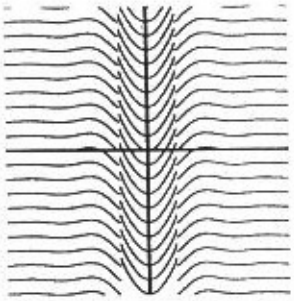
3)



4)



5)



6)