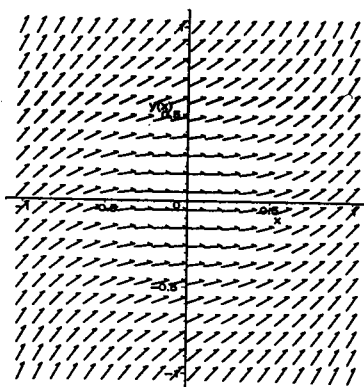
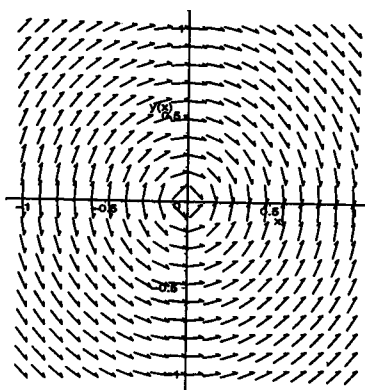


(5) [3 points] Match the direction field plot with the differential equation. No working necessary.

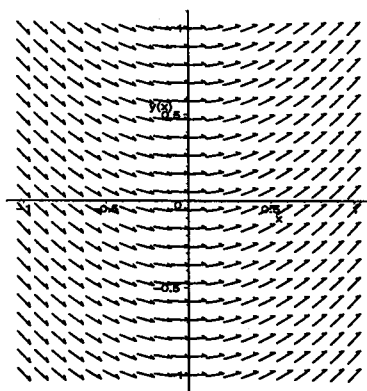
(A)



(B)



(C)



(i)

$$\frac{dy}{dx} = x$$

(ii)

$$\frac{dy}{dx} = xy$$

(iii)

$$\frac{dy}{dx} = -\frac{x}{y}$$

(iv)

$$\frac{dy}{dx} = x^2 + y^2$$