

2° Φυλλάδιο Ασκήσεων ΔΕ

Να λυθούν οι ΔΕ:

1. $xy' = \sqrt{x^2 + y^2} + y$

2. $y' + \frac{y}{2+x} + (2+x)y^4 = 0$

3. $y' = \frac{x^2+y^2}{2xy}$

4. $y' - \frac{y}{x} = x^2$

5. $y' = \frac{x+y-2}{-x+y-4}$

6. $y' - y \cot x = 2x \sin x$

7. $y' + xy = xy^2$

8. $y' = \frac{x^4+3x^2y^2+y^4}{x^3y}$

9. $y' - \frac{3}{x}y = x^4y^{\frac{1}{3}}$

10. $y' + y = \sin x$