

1) RESUELVE CADA E.D SI ES EXACTA.

1.  $(3x^2 + 2xy^2 - 2x)dx + (3y^2 + 2x^2y - 2y)dy = 0$

2.  $(2xy - e^{2y})dx + (x^2 + xe^{2y} - y)dy = 0$

3.  $(y \cos x + 2xe^y - x)dx + (y + \operatorname{sen} x + x^2e^y)dy$

4.  $(e^x \operatorname{sen} y + 2y \operatorname{sen} x - 2x)dx + (e^x \cos y - 2 \cos x + 2y)dy = 0$

5.  $(y \ln x + y)dx + (x \ln x - e^y)dy = 0$

2) RESUELVE CADA E.D HOMOGENEA.

1.  $(2x - y)dx + (-3x + 5y)dy = 0$

2.  $xy dy = (y^2 - xy + x^2)dx$

3.  $(x^2 + y^2) y' + xy = 0$

4.  $(x^2 - 8xy - 4y^2) dy = (x^2 + 2xy - 4y^2) dx$

5.  $Xy' \operatorname{sen}^2\left(\frac{y}{x}\right) = X + y \operatorname{sen}^2\left(\frac{y}{x}\right)$