

Ecuación diferencial	Ordinaria o Parcial	Orden	Variables independientes	Variables dependientes
(a) $y' = x^2 + 5y$	→ Ordinaria	→ Uno	→ Es x	→ Es y
(b) $y'' = 4y' - 5y = e^{3x}$	→ Ordinaria	→ Dos	→ Es x	→ Es y
(c) $\frac{\partial U}{\partial t} = 4\frac{\partial^2 U}{\partial x^2} + \frac{\partial U}{\partial y}$	→ Parcial	→ Dos	→ x, y, t	→ U
(d) $\left(\frac{d^3 S}{dt^3}\right)^2 + \left(\frac{d^2 S}{dt^2}\right)^3 = 5 - 3t$	→ Ordinaria	→ Tres	→ t	→ S
(e) $\frac{dr}{d\phi} = \sqrt{r\phi}$	→ Ordinaria	→ Uno	→ ϕ	→ r
(f) $\frac{d^2 x}{dy^2} - 3x = \sin y$	→ Ordinaria	→ Dos	→ y	→ x
(g) $\frac{\partial^2 v}{\partial x^2} = 3\sqrt{\frac{\partial v}{\partial y}}$	→ Parcial	→ Dos	→ x, y	→ v
(h) $(2x+ty)dx + (x-3y)dy = 0$	→ Ordinaria	→ Uno	→ x o y	→ x o y
(i) $y'' + xy = \sin y''$	→ Ordinaria	→ Dos	→ x	→ y
(j) $\frac{\partial^2 T}{\partial x^2} + \frac{\partial^2 T}{\partial y^2} + \frac{\partial^2 T}{\partial z^2} = 0$	→ Parcial	→ Dos	→ x, y, z	→ T

7. Complete la siguiente tabla