

1. Solve the differential equation $dy/dx = 5x^2$
 $y = 5/3 x^3 + c$
2. Obtain the solution to the equation $dy/dx = 2xy^2$
 $yx = -1/x^2 + c$
3. Which of the following is not a form of first-order differential equations
Jacobi's equations
4. Determine which of the following equations is linear differential equation
 $y''' + y'^2 = x$
5. Solve the equation $dy/dx = e^x - y$
 $\ln \int (e^x + c)$
6. A differential equation with an initial conditions is called?
Initial value problem
7. Solving $xy dy/dx + y = x^3$ the answer is _____
 $xy = x^4/4 + c$
8. Solve $x^2 + y^2 dx - 2xy dy = 0$
 $x^2 - y^2 = cx$
9. A factor, which when multiplied with a non-exact differential equation make it exact,
is known as an _____
Integrating factor
10. In differential equation, number of arbitrary constant must be corresponds to the
_____ equation
Order of differential equation

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