



Differential Equations Assignment 7

Solve each differential equation.

(a) $x \frac{dy}{dx} + y = \frac{1}{y^2}$

(b) $\frac{dy}{dx} = y(xy^4 - 1)$



Solutions to Assignment 7

Remember the form of your solutions may vary! Your solution might be correct even though it does not look exactly like the solution listed below.

(a) $y^3 = \frac{C}{x^3} + 1$

(b) $\frac{1}{y^4} = Ce^{4x} + x + \frac{1}{4}$