

Hw 9.1 Differential Equations

Period _____

Find the general solution of each differential equation.

1) $\frac{dy}{dx} = \frac{2}{x}$

2) $\frac{dy}{dx} = 4x + 2$

3) $\frac{dy}{dx} = \frac{2}{x+2}$

4) $\frac{dy}{dx} = \frac{3}{x^5}$

5) $\frac{dy}{dx} = \frac{x^3}{y^2}$

6) $\frac{dy}{dx} = \frac{1}{\sec^2 y}$

7) $\frac{dy}{dx} = \frac{3e^x}{y^2}$

8) $\frac{dy}{dx} = \frac{3x^2}{e^{2y}}$