

Name: _____

Date: _____

Differential Equations

Solve each system of equations.

1) $\frac{dy}{dx} = 3x^3 + 3x^2 + 3x + 4$

2) $\frac{dy}{dx} = \frac{-18}{x^4}$

3) $\frac{dy}{dx} = -32 \sec^2(16x - 40)$

4) $\frac{dy}{dx} = \frac{-8}{x^2}$

5) $\frac{dy}{dx} = -3x^2 - 4x$

6) $\frac{dy}{dx} = 4x^2 - 3x - 4$

7) $\frac{dy}{dx} = -72 \sin(12x - 12)$

8) $\frac{dy}{dx} = 2x^2 - 6x + 4$
