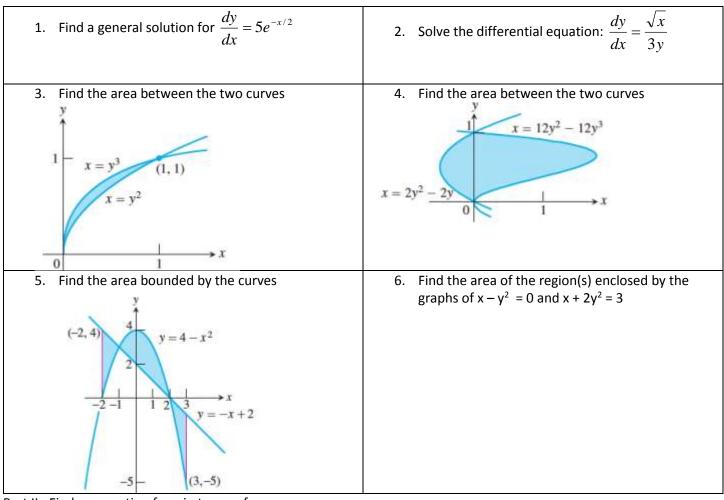
Name:



Part II: Find an equation for y in terms of x

1.
$$\frac{dy}{dx} = \frac{7x^2}{y^3}$$
; $y(3) = 2$
3. $\frac{dy}{dx} = \frac{1}{y + x^2y}$; $y(0) = 2$
5. $\frac{dy}{dx} = \frac{y^2}{x^3}$; $y(1) = 2$
6. $\frac{dy}{dx} = \frac{\sin x}{\cos y}$; $y(0) = 3\pi/2$

Name: _____

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Answers – Part I

1. $y = -\frac{5}{x}e^{-\frac{x}{2}} + C$ 2. $y = \sqrt{\frac{4}{9}x^{\frac{3}{2}} + C}$ 3. 1/124. 4/35. 49/6

Answers – Part II

1.
$$y = 4\sqrt{\frac{28x^3}{3} - 236}$$

2. $y = 6e^{\frac{5x^3}{3}}$
3. $y = \sqrt{2\arctan(x+4)}$

Name:

- $4. \quad y = \sqrt[3]{3e^x 2}$
- 5. Y=2x²
- 6. Y= sin⁻¹(-cosx)
- 7. 1.0823
- 8. E

