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Explicit Differentiation

Answers

- $y = 2x + 1 \Rightarrow \frac{dy}{dx} = 2$
 - $y = 3x^2 \Rightarrow \frac{dy}{dx} = 6x$
 - $y = 5x^3 \Rightarrow \frac{dy}{dx} = 15x^2$
 - $y = 7x^4 \Rightarrow \frac{dy}{dx} = 28x^3$
 - $y = 9x^5 \Rightarrow \frac{dy}{dx} = 45x^4$
 - $y = 11x^6 \Rightarrow \frac{dy}{dx} = 66x^5$
 - $y = 13x^7 \Rightarrow \frac{dy}{dx} = 91x^6$
 - $y = 15x^8 \Rightarrow \frac{dy}{dx} = 120x^7$
 - $y = 17x^9 \Rightarrow \frac{dy}{dx} = 153x^8$
 - $y = 19x^{10} \Rightarrow \frac{dy}{dx} = 190x^9$
 - $y = 21x^{11} \Rightarrow \frac{dy}{dx} = 231x^{10}$
- $y = 2x^2 + 3x - 4 \Rightarrow \frac{dy}{dx} = 4x + 3$
 - $y = 5x^3 - 2x^2 + 7x - 1 \Rightarrow \frac{dy}{dx} = 15x^2 - 4x + 7$
 - $y = 8x^4 + 6x^3 - 9x^2 + 11x - 5 \Rightarrow \frac{dy}{dx} = 32x^3 + 18x^2 - 18x + 11$
 - $y = 12x^5 - 7x^4 + 4x^3 - 2x^2 + 9x - 3 \Rightarrow \frac{dy}{dx} = 60x^4 - 28x^3 + 12x^2 - 4x + 9$
 - $y = 16x^6 - 10x^5 + 7x^4 - 5x^3 + 3x^2 - 8x + 2 \Rightarrow \frac{dy}{dx} = 96x^5 - 50x^4 + 28x^3 - 15x^2 + 6x - 8$

Solution

Find an expression in terms of x and y for $\frac{dy}{dx}$, given that:

- $x^2 + y^2 = 4$

$$2x + 2y \frac{dy}{dx} = 0$$

$$2y \frac{dy}{dx} = -2x$$

$$\frac{dy}{dx} = -\frac{2x}{2y}$$

$$\frac{dy}{dx} = -\frac{x}{y}$$

- $x^2 - y^2 = 4$

$$2x - 2y \frac{dy}{dx} = 0$$

$$-2y \frac{dy}{dx} = -2x$$

$$\frac{dy}{dx} = \frac{-2x}{-2y}$$

$$\frac{dy}{dx} = \frac{x}{y}$$

METHODS OF INTEGRATION

Name _____
Period _____ Date _____

Part I. Inverse substitution practice.
Find each integral without showing any work.

- $\int \frac{1}{x-3} dx$
- $\int \frac{1}{2x-3} dx$
- $\int e^{4x} dx$
- $\int e^{x^2} dx$
- $\int \frac{1}{\sqrt{x-2}} dx$
- $\int \frac{1}{\sqrt{x+2}(x+2)^2} dx$
- $\int \sin(x) dx$
- $\int \cos\left(\frac{x}{2}\right) dx$
- $\int \sqrt{x} dx$
- $\int \sqrt{x+2} dx$

Part II. Common Mistakes. In each pair of (similar) statements, one is true and one is false. Correct the false statement by changing the underlined portion.

- $\int \frac{1}{x-3} dx = \ln|x-3| + C$
 - $\int \frac{1}{x-3} dx = \ln|x^2-3| + C$
- $\int \frac{1}{x} dx = \ln|x| + C$
 - $\int \frac{1}{x^2} dx = \ln|x^2| + C$
- $\int \frac{1}{x} \cdot \frac{1}{x^2-1} dx = \frac{1}{2} \ln\left|\frac{x-1}{x+1}\right| + C$
 - $\int \frac{1}{x} \cdot \frac{1}{x^2-1} dx = -\frac{1}{2} \ln|x^2-1| + C$
- $\int \frac{1}{x^2} dx = \frac{-\ln|x|}{x} + C$
 - $\int \frac{1}{x^2} dx = \frac{-\ln|x|}{x^2} + C$
- $\int \frac{\cos x + 2}{\sin x} dx = \frac{\sin x}{\cos x} + \frac{2}{\cos x} + C$
 - $\int \frac{\cos x + 2}{\sin x} dx = \frac{\sin x}{\cos x} + \frac{2}{\cos x} + C$
- $\int \frac{\cos x}{\sin x} dx = \frac{\sin x}{\cos x} + C$
 - $\int \frac{\cos x}{\sin x} dx = \frac{\sin x}{\cos x} + C$

dependent $\frac{dx}{dy}$

9. $x^2 = \sin^2 y$, find $\frac{dx}{dy}$

$\frac{d(x^2)}{dy} =$

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