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Solution : the distance x meters traveled by a
vehicle in time t seconds. $x = 20 t - (5/3)t^2$.

To find the speed of the vehicle, differentiate
it with respect to "t". $dx/dt = 20 (1) - (5/3)$

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$(2t) = 20 - (10 t/3)$ the speed of the vehicle (in km/hr) at the instant the brakes are applied. $t = 0$.

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Problems and Solutions. Go through the

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given differential calculus examples below:

Example 1: $f(x) = 3x^2 - 2x + 1$. Solution:

Given, $f(x) = 3x^2 - 2x + 1$. Differentiating both sides, we get, $f'(x) = 6x - 2$, where $f'(x)$ is the derivative of $f(x)$. Example 2:

$f(x) = x^3$. Solution: We know,

$$\left(\frac{\mathrm{d}}{\mathrm{d}x} (x^n)\right) = n x^{n-1}$$

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Differential Calculus (Formulas and Examples)

Section 3-3 : Differentiation Formulas. For problems 1 – 12 find the derivative of the given function. $f(x) = 6x^3 - 9x + 4$ $f(x) = 6x^3 - 9x + 4$ Solution. $y = 2t^4 - 10t^2 + 13t$ y

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Solution. $g(z) = 4z^7$

$$- 3z - 7 + 9z \quad g(z) = 4z^7 - 3z - 7 + 9z$$

Solution. $h(y) = y - 4 - 9y - 3 + 8y - 2 + 12$

$$h(y) = y - 4 - 9y - 3 + 8y - 2 + 12$$

Solution. $y = x + 8 \quad 3x - 24 \quad xy = x +$

$8x^3 - 2x^4$ **Solution.**

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Calculus I - Differentiation Formulas
(Practice Problems)

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$2 = 1. 1 + 2. 0 = 1 = 1$. Therefore, the given boundary problem possess solution and it particular. solution is $= \sin$. (b) Since every

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solution of differential equation $2 \cdot 2 + = 0$
may be written...

(PDF) PROBLEM SET & SOLUTIONS: DIFFERENTIAL EQUATION

Section 4-12 : Differentials. For problems 1
– 3 compute the differential of the given

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Solution. $f(x) = x^2 - \sec(x)$ $f'(x) = 2x - \sec(x)$
Solution. $w = e^{x^4 - x^2 + 4x}$ $w' = e^{x^4 - x^2 + 4x} (4x^3 - 2x + 4)$
Solution. $h(z) = \ln(2z)\sin(2z)$ $h'(z) = \ln(2z) \cdot 2\cos(2z) + \sin(2z) \cdot \frac{1}{z}$

Calculus I - Differentials (Practice
Problems)

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inscribed in a triangle using the first derivative. The problem and its solution are presented.

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A Collection of Problems in Differential
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Identify whether a given function is a solution to a differential equation or an initial-value problem. Calculus is the mathematics of change, and rates of change

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are expressed by derivatives. Thus, one of the most common ways to use calculus is to set up an equation containing an unknown function $(y=f(x))$ and its derivative, known as a differential equation.

9.1: Modeling with Differential Equations -

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Solved example of differential calculus. $\frac{d}{dx}(2x+1)$
 $\frac{d}{dx} \cdot (2x+1)^2$. The derivative of a sum of

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two functions is the sum of the derivatives of each function. $\frac{d}{dx}(2x) + \frac{d}{dx}(1)$

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initial value is called an initial-value problem. To solve an initial-value problem, first find the general solution to the differential equation, then determine the value of the constant. Initial-value problems have many applications in science and engineering.

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Basics of Differential Equations – Calculus
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