

I'm not a robot!

(1) $\frac{d}{dx} x^n = nx^{n-1}$

Ques. 1 $\frac{d}{dx} x^3 = 3x^{3-1} = 3x^2$

Ques. 2 $\frac{d}{dx} x^5 = 5x^{5-1} = 5x^4$

Ques. 3 $\frac{d}{dx} x^{10} = 10x^{10-1} = 10x^9$

Ques. 4 $\frac{d}{dx} x^{15} = 15x^{15-1} = 15x^{14}$

Differentiation Worksheet 1

Differentiate with respect to x.

1) x^3 5) $2x^8$ 9) x^{-3} 13) $2x^{-2}$
 2) x^6 6) $5x^2$ 10) x^{-6} 14) $2x^{-1}$
 3) x^2 7) $7x^{11}$ 11) x^{-2} 15) $2x^{-9}$
 4) x^0 8) $4x^{-1}$ 12) x^{-5} 16) $2x^{-13}$

1) $\frac{1}{2}x^{\frac{1}{2}}$ 5) $8x^{\frac{1}{2}}$ 9) $4x^{\frac{1}{2}}$ 13) $3x^{\frac{1}{2}}$
 2) $\frac{2}{3}x^{\frac{2}{3}}$ 6) $8x^{\frac{1}{2}}$ 10) $7x^{-\frac{1}{2}}$ 14) $x^{-\frac{1}{2}}$
 3) $\frac{1}{3}x^{\frac{3}{2}}$ 7) $12x^{\frac{1}{3}}$ 11) $x^{-\frac{3}{2}}$ 15) $2^{-\frac{1}{2}}$
 4) $\frac{2}{5}x^{\frac{10}{5}}$ 8) $24x^{\frac{1}{5}}$ 12) $11x^{\frac{1}{5}}$ 16) $7x^{-\frac{1}{5}}$

1) $x^2 + 3$ 5) $x^5 + x^3$ 9) $x^3 - x^2$
 2) $x^6 - 7$ 6) $x^2 + x^6$ 10) $x^5 + x^9$
 3) $x^5 + 4$ 7) $x^4 - x^8$ 11) $x^4 - x^{-1}$
 4) $x^7 + 1$ 8) $x^8 - x$ 12) $x^7 + x^{\frac{1}{2}}$

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NOW

1) $2x^{-1} + x^3$
 2) $12x^4 - 2x^3$
 3) $5x^5 + 3x^2$
 4) $3x^4 - 9x^{-8}$

5) $7x^{-1} + 2x^{\frac{1}{2}}$
 6) $\frac{2}{3}x^{-2} + 4x^{-\frac{1}{2}}$
 7) $9x^{\frac{1}{2}} - 11x^{-\frac{1}{2}}$

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Please take a dot and place it on the coordinate plane on the wall in the quadrant that fits your understanding.

How well do you understand differentiation?	
I know about it but don't know its implementation.	I understand and successfully implement it in my own words.
II	I
III	IV
I have heard about it but don't know much about it.	I have never heard about it.

5) Differentiate with respect to x:

i) $y = \sqrt[3]{e^{1-x}}$

NOTE: $a^{\frac{1}{2}} = \sqrt{a}$

$\frac{dy}{dx} = \frac{d}{dx} \left(e^{1-x} \right)^{\frac{1}{3}}$

$\frac{dy}{dx} = \frac{1}{3} \left(e^{1-x} \right)^{\frac{-2}{3}} \cdot (-e^{-x})$

$\frac{dy}{dx} = -\frac{1}{3} \left(e^{1-x} \right)^{\frac{-2}{3}} \cdot e^{-x}$

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(0,0) and (2,1)	$\frac{1}{2}$	(5, -1) and (1,1)	$-\frac{1}{2}$
(2,1) and (0,0)	$\frac{1}{2}$	(10, -2) and (2,2)	$-\frac{1}{2}$
(-2,1) and (0,0)	$-\frac{1}{2}$	(10, -2) and (2,10)	$-\frac{3}{2}$
(-2, -1) and (0,0)	$\frac{1}{2}$	(10, -2) and (-2, -10)	$\frac{2}{3}$
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