

47071, Math, Differential Calculus

If $y = (4x - 5)^6$, differentiate with respect to x .

- a) $24(4x - 5)^5$
- b) $(4x - 5)^5$
- c) $24(x - 5)^5$
- d) $24(4x - 5)$

Solution:

$$y' = [(4x - 5)^6]' = 6(4x - 5)^5 \cdot (4x - 5)' = 24(4x - 5)^5$$

Answer: a) $24(4x - 5)^5$

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