

POP QUIZ

Differentiation

Determine **TRUE** or **FALSE** for the following solution of differentiation equation.

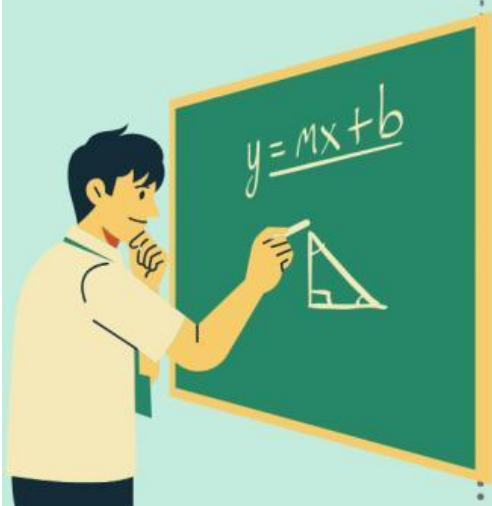
1 $y = \frac{4x^5}{5}$

Solution:

$$\frac{dy}{dx} = 5 \times \frac{4x^5}{5}$$
$$= 4x^5$$

a. True

b. False



2 $y = \sin 10x$

Solution:

$$\frac{dy}{dx} = \cos 10x \times 10$$
$$= 10\cos 10x$$

a. True

b. False



3 $y = \ln(7x - 3)$

Solution:

$$\frac{dy}{dx} = \frac{1}{7x-3} \times 7$$
$$= \frac{7}{7x-3}$$

a. True

b. False

