1. Suppose xy = 1. Find the value of $\dfrac{dy}{dx}$ at x = -2.

    A. $\dfrac{3}{4}$

    B. $\dfrac{1}{2}$

    C. 0

    D. $-\dfrac{1}{4}$

    E. Not enough information

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2. Find $\dfrac{dy}{dx}$ when $x^2 - xy + y^4 = 17$.

    A. $\dfrac{dy}{dx} = \dfrac{-2x}{4y^3 - x}$

    B. $\dfrac{dy}{dx} = \dfrac{y - 2x}{4y^3 - x}$

    C. $\dfrac{dy}{dx} = \dfrac{y - 2x}{4y^3}$

    D. $\dfrac{dy}{dx} = \dfrac{17 - 2x}{4y^3 - x}$

    E. Not enough information

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3. Find $\dfrac{dy}{dx}$ when $\cos(x + 3y) = x \tan y$.

    A. $\dfrac{dy}{dx} = \dfrac{-\tan y}{x\sec^2 y + 3\sin(x + 3y)}$

    B. $\dfrac{dy}{dx} = -\dfrac{\sin(x + 3y)}{x\sec^2 y + 3\sin(x + 3y)}$

    C. $\dfrac{dy}{dx} = -\dfrac{\sin(x + 3y) + \tan y}{x\sec^2 y}$

    D. $\dfrac{dy}{dx} = -\dfrac{\sin(x + 3y) + \tan y}{x\sec^2 y + \cos(x + 3y)}$

    E. $\dfrac{dy}{dx} = -\dfrac{\sin(x + 3y) + \tan y}{x\sec^2 y + 3\sin(x + 3y)}$