

Unit 1 Quiz D

Randomly select 3 questions to ask members of the group requesting the next set of assignments. If they get all questions correct, give them the entire stack of quizzes and assignments so that they can quiz the next group. If they get any question wrong, send them back to their seats to review and then try again in 10 minutes or more.

- 1) Find the derivative of $f(x) = 5$.

Answer: 0.

- 2) Consider the function $f(x, y) = x + \cos(y)$. Find the partial derivative with respect to x .

Answer: 1.

- 3) What is the derivative of $f(x) = 3 \ln(x)$?

Answer: $3/x$.

- 4) Find the derivative of $f(x) = x^{1/2}$.

Answer: $\frac{1}{2}x^{-1/2}$.

- 5) Find the derivative of $f(x) = x^3 + 1$.

Answer: $3x^2$.

- 6) Consider $f(x, y) = \ln(x) + \ln(y)$. Find the partial derivative with respect to x .

Answer: $\frac{1}{x}$.