## Unit 2 Quiz (2.1-2.8) - KU

Please complete Unit 2 Quiz (2.1-2.8) - KU. You can complete it many times but must be finished before the end of today's class. Good luck!

Unit 2 Quiz (2.1-2.8) KU, A, PS and C all need to be completed in today's class!!! If there are issues send a message to your teacher during the school day. End of school day we will not be able to respond.

1 1 point

$$\frac{d(xy^2)}{dx}$$

- 2xy
- \_\_\_\_\_ 2y
- $\bigcirc \quad x(2y)+y^2$
- $\int x(2y)rac{dy}{dx}+y^2$

2 1 point

Order the proof for the chain rule

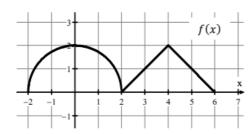
- $ilde{\mathbb{H}} \ \ f'(u(x)) = rac{dy}{du} rac{du}{dx}$

- $ilde{\mathbb{H}} \ \ f'(u(x)) = \lim_{h o 0} rac{f(u(x+h)-f(u(x))}{u(x+h)-u(x)} \lim_{h o 0} rac{u(x+h)-u(x)}{h}$
- $dots f'(u(x)) = \lim_{h o 0} rac{f(u(x+h) f(u(x))}{u(x+h) u(x)} rac{u(x+h) (u(x))}{h}$

Find the tangent to the curve at  $x^2+y^2=25$  at point (3,-4)

Answers in decimal form

4 1 point



What is f'(4)

- 0
- $\frac{1}{\sqrt{3}}$
- 1
- O DNE

5 1 point

$$f(x)=rac{3x+4}{2x}$$

The tangent at x = 1 is y = ax + bFind a and b