

Name _____

Mathematics 105D: Calculus I
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Quiz #1

The function f has rule $f(x) = x^3 + 3$.

A. What is $f(1)$?

The rule for the function m is that $m(x)$ is the slope of the line segment connecting the point $(1, 4)$ and the point $(x, f(x))$.

B. What is formula for the slope of the line segment connecting the point $(1, 4)$ and the point $(x, f(x))$?

C. What is a formula for $m(x)$?

D. What is the value of $m(3)$?

E. Why does the expression $m(1)$ not make any sense?