

Practice for Quiz 1 on Difference Quotient

Math 130 *Kovitz* Spring 2019

The quiz is scheduled for Tuesday, February 26.

1. Let $f(x) = x^2 - 2x - 1$.

Find

$$\frac{f(-1+h) - f(-1)}{h}.$$

2. Let the f be function with the rule $f(x) = x^2 - x + 2$.

Find $\frac{f(x+h) - f(x)}{h}.$

3. Let the g be function with the rule $g(x) = 5x^2 - 3x + 1$.

Find $\frac{g(2+h) - g(2)}{h}.$

Answers follow on the next page.

Answers to Practice for Quiz 1

1. $h - 4$.
2. $2x - 1 + h$.
3. $5h + 17$