Solutions / beg

Ouiz 1

Calculus - Mr. Davis

September 29, 2020

Section 1: Instructions - (algebraically) Compute the following limits:

1.
$$\lim_{h \to 3} \frac{2h^2 - 18}{h - 3} = \lim_{h \to 3} \frac{2(h^2 - a)$$

Find the value(s) of c such that:

$$\lim_{x \to -2^{-}} K(y) = \lim_{x \to -2^{+}} K(y)$$

or state that no values exist.

$$\lim_{y \to -2^{+}} K(y) = \lim_{y \to -2^{-}} 1^{-3}y = 1^{-3}(-2) = 7$$

$$\lim_{y \to -2^{+}} K(y) = \lim_{y \to -2^{+}} y^{2} + C = 4 + C$$

$$y \to -2^{+} Y \to -2^{+}$$

$$\Rightarrow C = 3$$