

**Math 101 (091)****Quiz 1 v1** (ch 2)

Name:

ID #:

Section #:

Serial #:

Find the limit

$$\lim_{x \rightarrow \infty} (e^{-2x} \sin x)$$

**Math 101 (091)****Quiz 1 v2** (ch 2)

Name:

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Sketch the graph of an example of a function  $f$  that satisfies all the given conditions

$$\lim_{x \rightarrow 0^+} f(x) = \infty, \quad \lim_{x \rightarrow 0^-} f(x) = -\infty, \quad \lim_{x \rightarrow \infty} f(x) = 1, \\ \lim_{x \rightarrow -\infty} f(x) = 1$$

**Math 101 (091)****Quiz 1 v3** (ch 2)

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Sketch the graph of an example of a function  $f$  that satisfies all the given conditions

$$\lim_{x \rightarrow -2} f(x) = \infty, \quad \lim_{x \rightarrow -\infty} f(x) = 3, \quad \lim_{x \rightarrow \infty} f(x) = -3,$$