Directions: Write limit statements for the end behavior of the following logarithmic functions.

1. $f(x) = 3\log_2 x$

a > 0 and b > 1

Left: $\lim_{x \to 0^+} f(x) = -\infty$

Right: $\lim_{x \to +\infty} f(x) = +\infty$

2. $g(x) = -2\log x$

a < 0 and b > 1

Left: $\lim_{x \to 0^+} f(x) = +\infty$

Right: $\lim_{x \to +\infty} f(x) = -\infty$

3. $h(x) = \frac{3}{4}\log_a x$

a > 0 and b > 1

Left: $\lim_{x \to 0^+} f(x) = -\infty$

Right: $\lim_{x \to +\infty} f(x) = +\infty$

Directions: The graphs of k and m are shown below. Use the graphs to answer the following.

Graph of $k(x)$

Graph of $m(x)$

4. The graph of k is
(A) increasing at an increasing rate.
(B) increasing at a decreasing rate.
(C) decreasing at an increasing rate. *Concave up*
(D) decreasing at a decreasing rate.

8. The graph of m is
(A) increasing at an increasing rate.
(B) increasing at a decreasing rate. *Concave down*
(C) decreasing at an increasing rate.
(D) decreasing at a decreasing rate.

5. Which of the following pairs of limit statements correctly describes the end behavior of k?

(A) $\lim_{x \to 0^+} k(x) = -\infty$ and $\lim_{x \to \infty} k(x) = -\infty$

(B) $\lim_{x \to 0^+} k(x) = -\infty$ and $\lim_{x \to \infty} k(x) = \infty$
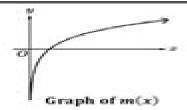
(C) $\lim_{x \to 0^+} k(x) = \infty$ and $\lim_{x \to \infty} k(x) = -\infty$

(D) $\lim_{x \to 0^+} k(x) = \infty$ and $\lim_{x \to \infty} k(x) = \infty$

9. Which of the following pairs of limit statements correctly describes the end behavior of m?

(A) $\lim_{x \to 0^+} m(x) = -\infty$ and $\lim_{x \to \infty} m(x) = -\infty$

(B) $\lim_{x \to 0^+} m(x) = -\infty$ and $\lim_{x \to \infty} m(x) = \infty$

(C) $\lim_{x \to 0^+} m(x) = \infty$ and $\lim_{x \to \infty} m(x) = -\infty$

(D) $\lim_{x \to 0^+} m(x) = \infty$ and $\lim_{x \to \infty} m(x) = \infty$

6. Which of the following could be the equation for k?

(A) $k(x) = -2\log_4 x$ (B) $k(x) = 2\log_4 x$

(C) $k(x) = -4(2)^x$ (D) $k(x) = 4\left(\frac{1}{2}\right)^x$

a < 0 and b > 1

10. Which of the following could be the equation for m?

(A) $m(x) = -3\log_8 x$ (B) $m(x) = 3\log_8 x$

(C) $m(x) = -3(8)^x$ (D) $m(x) = 3(8)^x$

a > 0 and b > 1

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Beverly Langsford Willing,Sue Michell,Kahni Burrows

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