

9. [12] For each of the following functions identify all horizontal and vertical asymptotes. Justify your answers.

$$(a) f(x) = \frac{x^2 + 5x - 24}{x^2 - x - 6} = \frac{(x+8)(x-3)}{(x+2)(x-3)} \quad (\text{hole at } x=3)$$

$$\lim_{x \rightarrow \pm\infty} f(x) = 1 \quad \text{~~the asymptote is~~}$$

vertical $x = -2$

horizontal $y = 1$

$$(b) f(x) = \frac{4x^2 + 12x + 40}{x^4 - 27x} = \frac{4(x^2 + 3x + 10)}{x(x-3)(x^2 + 3x + 9)}$$

(The quadratics $x^2 + 3x + 9$ and $x^2 + 3x + 10$ are always > 0 ;

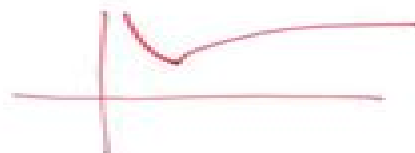
$$\lim_{x \rightarrow \pm\infty} f(x) = 0$$

vertical $x = 0, x = 3$

horizontal $y = 0$

$$(c) f(x) = 5 + (\ln x)^2$$

$$\lim_{x \rightarrow \infty} f(x) = \infty$$



vertical $x = 0$

horizontal none

10. [6] Identify all horizontal, vertical, and slant asymptotes of the function

$$f(x) = \frac{2x^4 + 4x^3 - 12x^2 + 37x - 4}{x^3 - 2x^2 - x + 2} = \frac{2x+8}{(x-2)(x-1)(x+1)}$$

Justify your answers.

$$\lim_{x \rightarrow \pm\infty} f(x) = \pm\infty$$

$$\begin{array}{r} \text{2x+8} \\ x^3 - 2x^2 - x + 2 \overline{) 2x^4 + 4x^3 - 12x^2 + 37x - 4} \\ \underline{2x^4 - 4x^3 - 2x^2 + 4x} \\ 8x^3 - 10x^2 + 33x - 4 \\ \underline{8x^3 - 16x^2 - 8x + 16} \\ 6x^2 + 41x - 20 \end{array}$$

vertical $x = 2, x = 1, x = -1$

horizontal none

slant $y = 2x + 8$

Algebra 1 Chapter 6 Answers

Avner Ash, Robert Gross



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