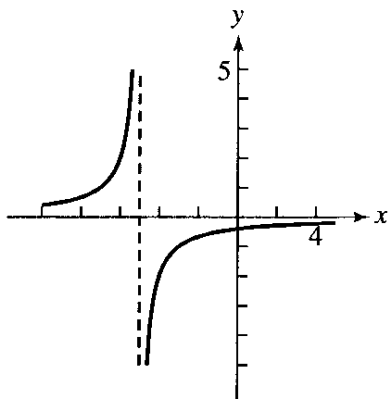


Page 246 1-22, skip divisible by 4

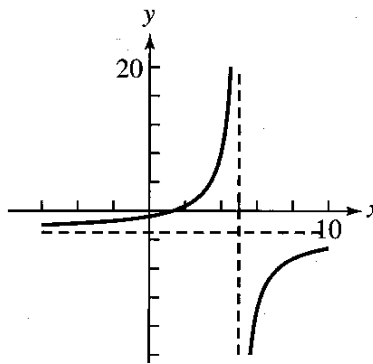
2. Domain: all $x \neq 1$; $\lim_{x \rightarrow 1^-} f(x) = \infty$; $\lim_{x \rightarrow 1^+} f(x) = -\infty$

6. Translate left 5 units, vertically stretch by 2, reflect across x -axis.
Asymptotes: $x = -5, y = 0$



10. Translate right 5 units, vertically stretch by 11, reflect across x -axis, translate down 3 units.

Asymptotes: $x = 5, y = -3$



14. 0

18. 5

22. Vertical asymptotes: $x = -3, x = 0$; Horizontal asymptote: $y = 0$;

$$\lim_{x \rightarrow -3^-} f(x) = -\infty, \lim_{x \rightarrow -3^+} f(x) = \infty, \lim_{x \rightarrow 0^-} f(x) = \infty,$$

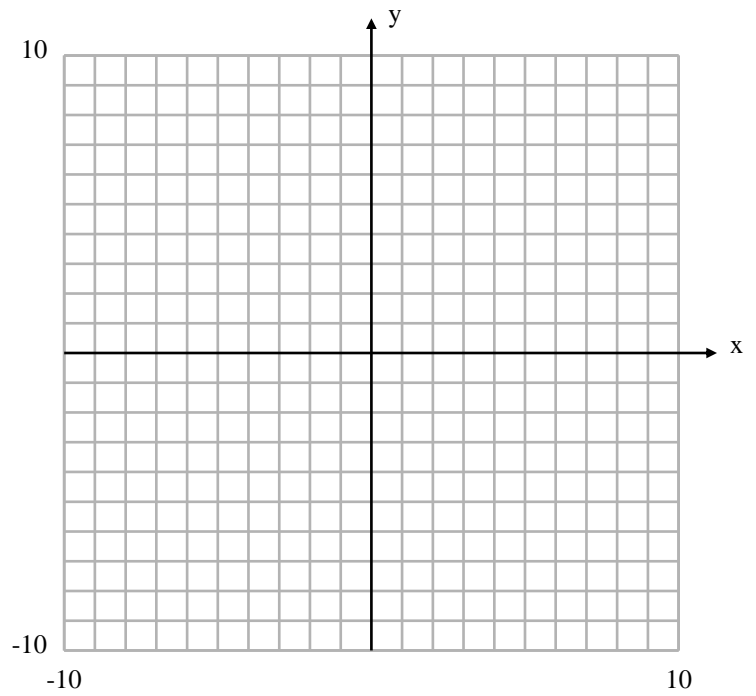
$$\lim_{x \rightarrow 0^+} f(x) = -\infty, \lim_{x \rightarrow -\infty} f(x) = \lim_{x \rightarrow \infty} f(x) = 0$$

Honors Pre-Calc

10-30-07

1. Find the asymptotes and intercepts of the function, and graph the function.

$$g(x) = \frac{-3x^2 + x + 12}{x^2 - 4}$$

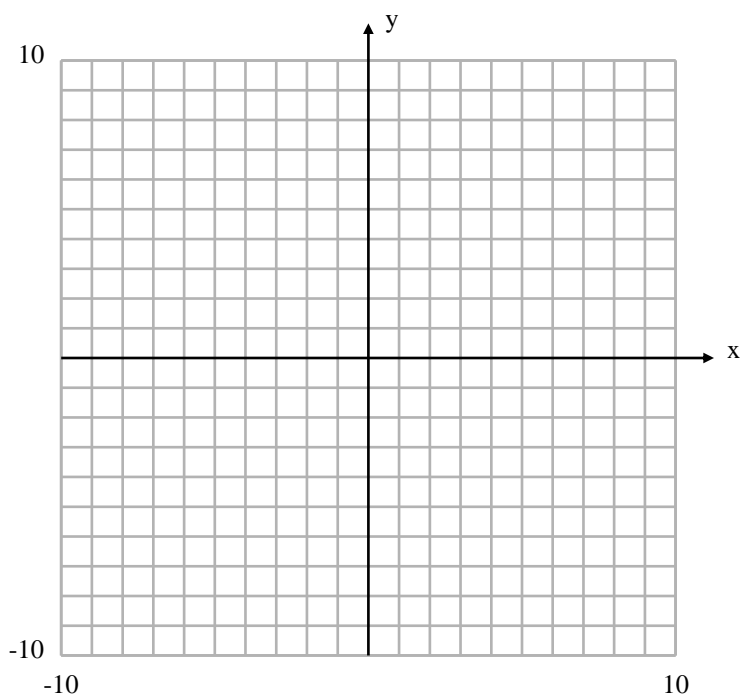


Honors Pre-Calc

10-30-07

2. Find the intercepts, asymptotes, use limits to describe the behavior at the vertical asymptotes, and analyze and draw the graph of the given rational function.

$$k(x) = \frac{x^2 - x - 2}{x - 3}$$



3. Find the intercepts, asymptotes, end behavior, and graph the function.

$$g(x) = \frac{x^5 + 1}{x - 1}$$

