Honors Algebra 2 — Unit 4 Study Guide

Unit 4 Target #1: I can graph rational functions, identifying zeros and asymptotes when suitable factorizations are available, and showing end behavior

Graph the function. (Be sure to graph the asymptotes and holes.)

$f(x) = \frac{4x}{x-1}$

horizontal asymptote $y = 4$

vertical asymptote(s) $x = 1$

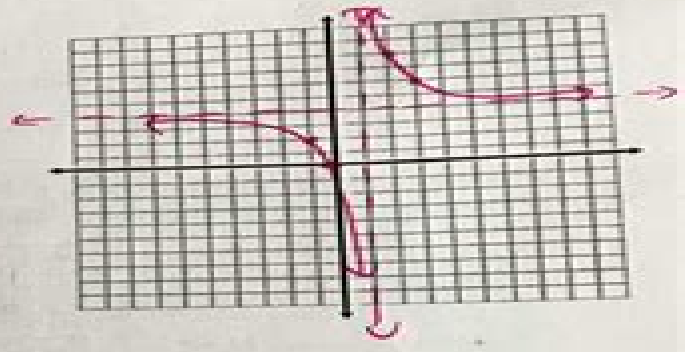
hole(s) in the graph none

domain $x \neq 1$

range $y \neq 4$

end behavior as $x \to \infty, y \to 4$

as $x \to -\infty, y \to 4$



Graph the function. (Be sure to graph the asymptotes and holes.)

$f(x) = \frac{x^2-9}{x+3} = \frac{(x+3)(x-3)}{x+3} = x-3$

horizontal asymptote none

vertical asymptote(s) none

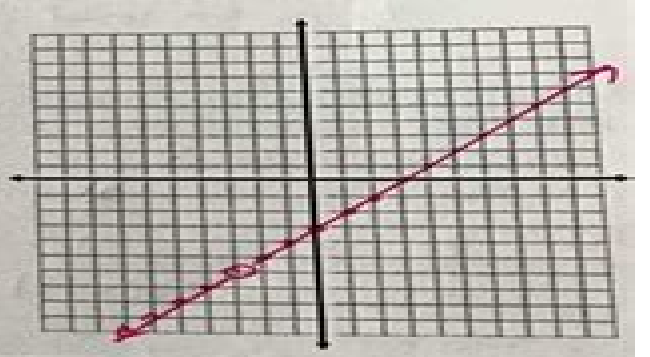
hole(s) in the graph $(-3, -6)$

domain $x \neq -3$

range $y \neq -6$

end behavior as $x \to \infty, y \to \infty$

as $x \to -\infty, y \to -\infty$



Unit 4 Target #2: I can solve rational equations in one variable

Unit 4 Target #3: I can identify an appropriate domain for a rational function

Solve the equation. State the restrictions.

$$\frac{x+5}{x^2+x} = \frac{1}{x^2+x} - \frac{x-6}{x+1}$$

restrictions: $x \neq 0, -1$

$$x(x+1)\left(\frac{x+5}{x(x+1)}\right) = \left(\frac{1}{x(x+1)} - \frac{x-6}{x+1}\right)x(x+1)$$

$x+5 = 1 - x(x-6)$

$x+5 = 1 - x^2 + 6x$

$x^2 - 5x + 4 = 0$

$(x-4)(x-1) = 0$

$x = 4$ or $x = 1$

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