

# 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)  $x = 1$

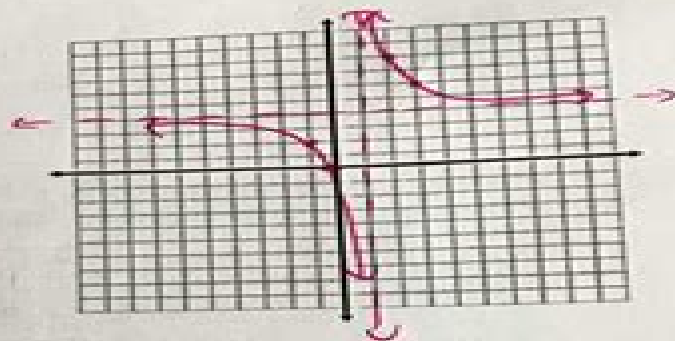
hole(s) in the graph none

domain  $x \neq 1$

range  $y \neq 4$

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

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



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

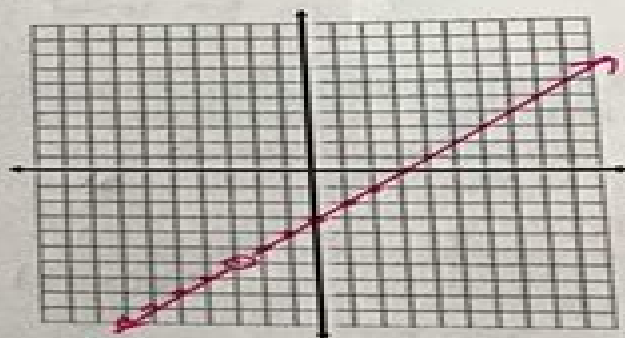
hole(s) in the graph  $(-3, -6)$

domain  $x \neq -3$

range  $y \neq -6$

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

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



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:  $x \neq 0, -1$

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

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

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

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

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

$$x = 4 \text{ or } x = 1$$

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acids or bases according to. 1. 1 different theories. An 2 acid yields hydrogen ions. 2. Arrhenius. LESSON 9.4 - Simply  
Chemistry Review with students the rules for writing and naming acids and bases. Create a chart comparing and contrasting  
the two methods. Then, have students complete ... section\_review\_19.3\_19.4\_19.5\_answers\_1.pdf Acid dissociation constants  
for weak acids can be calculated from experimental data. ST. 15. Bases react with water to form hydroxide ions. Part C  
Matching. Chapter 19 textbook KEY.pdf In the following chemical reaction, identify the Lewis acid and base.  $\text{BF}_3 + \text{BF}_4^-$ . -. (6)  
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